2013 VERSA SEDAN

OWNER'S MANUAL

For your safety, read carefully and keep in this vehicle.

DEALER E-PROCESS

Welcome to the growing family of new NISSAN owners. This vehicle is delivered to you with confidence. It was produced using the latest techniques and strict quality control.

This manual was prepared to help you understand the operation and maintenance of your vehicle so that you may enjoy many miles (kilometers) of driving pleasure. Please read through this manual before operating your vehicle.

A separate Warranty Information Booklet explains details about the warranties covering your vehicle. The "NISSAN Service and Maintenance Guide" explains details about maintaining and servicing your vehicle. Additionally, a separate Customer Care/Lemon Law Booklet (U.S. only) will explain how to resolve any concerns you may have with your vehicle, as well as clarify your rights under your state's lemon law.

Your NISSAN dealership knows your vehicle best. When you require any service or have any questions, they will be glad to assist you with the extensive resources available to them.

In addition to factory installed options, your vehicle may also be equipped with additional accessories installed by NISSAN or by your NISSAN dealer prior to delivery. It is important that you familiarize yourself with all disclosures, warnings, cautions and instructions concerning proper use of such accessories prior to operating the vehicle and/or accessory. See a NISSAN dealer for details concerning the particular accessories with which your vehicle is equipped.

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Before driving your vehicle, please read this Owner's Manual carefully. This will ensure familiarity with controls and maintenance requirements, assisting you in the safe operation of your vehicle.

⚠ WARNING

IMPORTANT SAFETY INFORMATION REMINDERS FOR SAFETY!

Follow these important driving rules to help ensure a safe and comfortable trip for you and your passengers!

- **NEVER drive under the influence of alcohol or drugs.**
- **ALWAYS observe posted speed limits and never drive too fast for conditions.**
- **ALWAYS give your full attention to driving and avoid using vehicle features or taking other actions that could distract you.**
- **ALWAYS use your seat belts and appropriate child restraint systems. Preteen children should be seated in the rear seat.**
- **ALWAYS provide information about the proper use of vehicle safety features to all occupants of the vehicle.**
- **ALWAYS review this Owner's Manual for important safety information.**

MODIFICATION OF YOUR VEHICLE

This vehicle should not be modified. Modification could affect its performance, safety or durability, and may even violate governmental regulations. In addition, damage or performance problems resulting from modifications may not be covered under NISSAN warranties.

This manual includes information for all options available on this model. Therefore, you may find some information that does not apply to your vehicle.

All information, specifications and illustrations in this manual are those in effect at the time of printing. NISSAN reserves the right to change specifications or design without notice and without obligation.

IMPORTANT INFORMATION ABOUT THIS MANUAL

You will see various symbols in this manual. They are used in the following ways:

⚠WARNING

This is used to indicate the presence of a hazard that could cause death or serious personal injury. To avoid or reduce the risk, the procedures must be followed precisely.

⚠CAUTION

This is used to indicate the presence of a hazard that could cause minor or moderate personal injury or damage to your vehicle. To avoid or reduce the risk, the procedures must be followed carefully.

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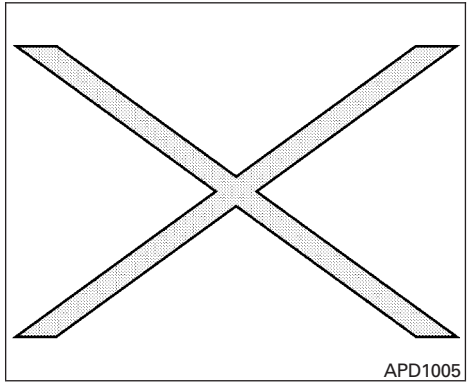

If you see this symbol, it means **“Do not do this”** or **“Do not let this happen.”**

If you see a symbol similar to these in an illustration, it means the arrow points to the front of the vehicle.

Arrows in an illustration that are similar to these indicate movement or action.

Arrows in an illustration that are similar to these call attention to an item in the illustration.

CALIFORNIA PROPOSITION 65 WARNING

⚠WARNING

Engine exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. In addition, certain fluids contained in vehicles and certain products of component wear contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

CALIFORNIA PERCHLORATE ADVISORY

Some vehicle parts, such as lithium batteries, may contain perchlorate material. The following advisory is provided: "Perchlorate Material – special handling may apply, See www.dtsc.ca.gov/hazardouswaste/perchlorate/".

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NISSAN CUSTOMER CARE PROGRAM

NISSAN CARES . . .

Both NISSAN and your NISSAN dealer are dedicated to serving all your automotive needs. Your satisfaction with your vehicle and your NISSAN dealer are our primary concerns. Your NISSAN dealer is always available to assist you with all your automobile sales and service needs.

However, if there is something that your NISSAN dealer cannot assist you with or you would like to provide NISSAN directly with comments or questions, please contact the NISSAN Consumer Affairs Department using our toll-free number:

For U.S. customers
1-800-NISSAN-1
(1-800-647-7261)

For Canadian customers
1-800-387-0122

The Consumer Affairs Department will ask for the following information:

- Your name, address, and telephone number
- Vehicle identification number (attached to the top of the instrument panel on the driver's side)
- Date of purchase
- Current odometer reading
- Your NISSAN dealer's name
- Your comments or questions

OR

You can write to NISSAN with the information at:

For U.S. customers
Nissan North America, Inc.
Consumer Affairs Department
P.O. Box 685003
Franklin, TN 37068-5003
or via e-mail at:
nnaconsumeraffairs@nissan-usa.com

For Canadian customers
Nissan Canada Inc.
5290 Orbitor Drive
Mississauga, Ontario L4W 4Z5
or via e-mail at:
information.centre@nissancanada.com

If you prefer, visit us at:
www.nissanusa.com (for U.S. customers) or
www.nissan.ca (for Canadian customers)

We appreciate your interest in NISSAN and thank you for buying a quality NISSAN vehicle.

Information Provided by:
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Table of Contents

Illustrated table of contents	0
Safety—Seats, seat belts and supplemental restraint system	1
Instruments and controls	2
Pre-driving checks and adjustments	3
Display screen, heater, air conditioner, audio and phone systems	4
Starting and driving	5
In case of emergency	6
Appearance and care	7
Maintenance and do-it-yourself	8
Technical and consumer information	9
Index	10

Information Provided by: DEALER

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0 Illustrated table of contents

Air bags, seat belts and child restraints 0-2
Exterior front 0-3
Exterior rear 0-4
Passenger compartment 0-5
Instrument panel 0-6
Engine compartment check locations 0-7
Warning/indicator lights 0-8

Information Provided by:
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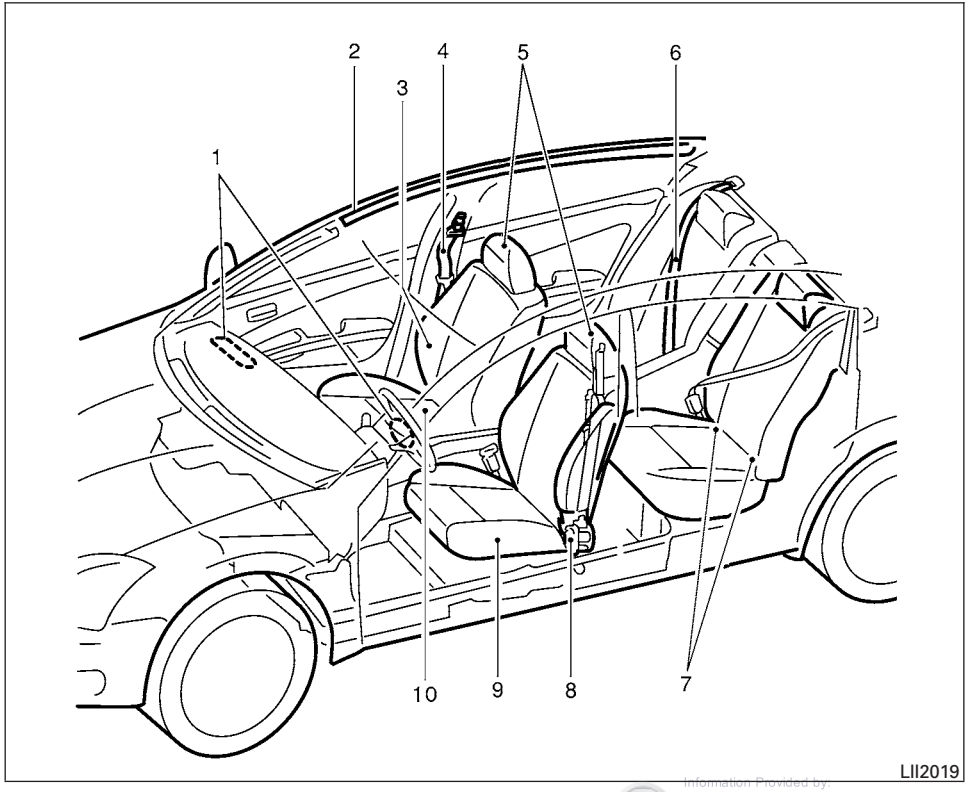

1. Supplemental front-impact air bag modules (P. 1-36)
2. Roof-mounted curtain side-impact supplemental air bag (P. 1-36)
3. Front seat-mounted side-impact supplemental air bag (P. 1-36)
4. Front seat belts (P. 1-10)
5. Head restraints (P. 1-5)
6. Rear seat belts (P. 1-4)
7. LATCH (Lower Anchors and Tethers for CHildren) system (P. 1-21)
8. Seat belt with pretensioner (P. 1-49)
9. Seats (P. 1-2)
10. Occupant classification sensor (weight sensor) (P. 1-43)

See the page number indicated in parentheses for operating details.

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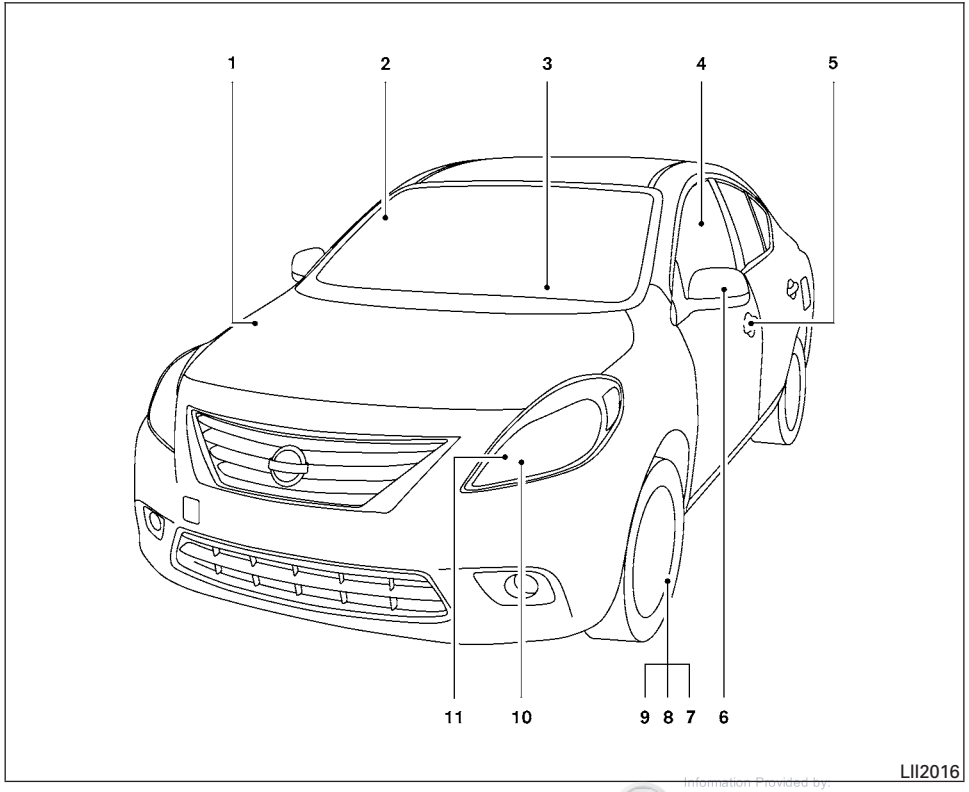
EXTERIOR FRONT



1. Engine hood (P. 3-24)
2. Windshield (P. 8-18)
3. Windshield wiper and washer switch (P. 2-21)
4. Power windows (if so equipped) (P. 2-29)
5. Door locks, keyfob, (if so equipped), keys (P. 3-5, 3-2, 3-2)
6. Mirrors (P. 3-31)
7. Tire pressure (P. 8-32)
8. Flat tire (P. 6-3)
9. Tire chains (P. 8-39)
10. Headlight and turn signal switch (P. 2-22)
11. Replacing bulbs (P. 8-26)

See the page number indicated in parentheses for operating details.

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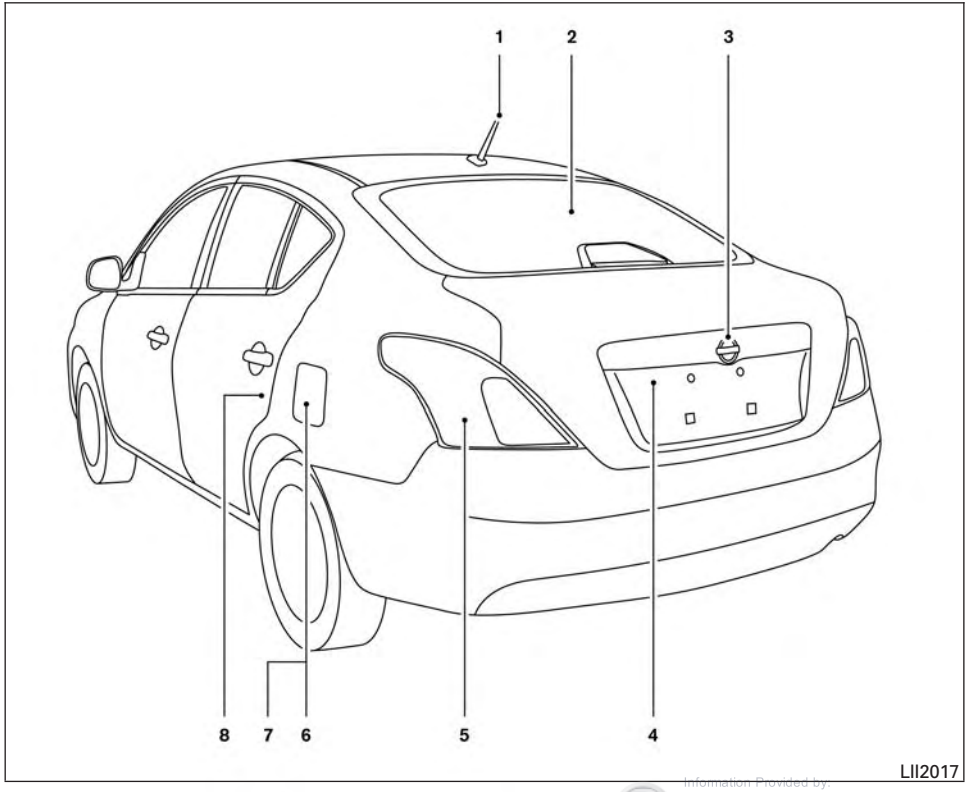
EXTERIOR REAR



1. Antenna (P. 4-52)
2. Rear window and outside mirror (if so equipped) defroster switch (P. 2-22)
3. Interior trunk lid release (P. 3-26)
4. Rear view camera (if so equipped) (P. 4-8)
5. Replacing bulbs (P. 8-26)
6. Fuel-filler door (P. 3-27)
7. Fuel-filler cap, fuel recommendation (P. 3-27, 9-3)
8. Child safety rear door locks (P. 3-7)

See the page number indicated in parentheses for operating details.

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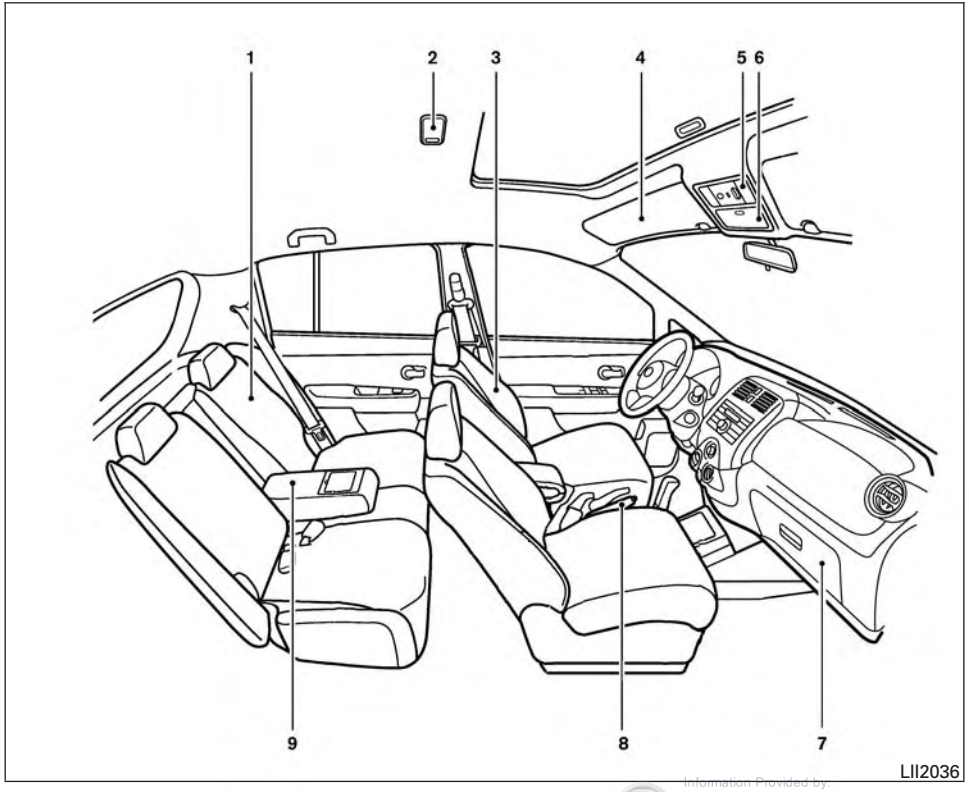
PASSENGER COMPARTMENT



1. Rear seat (P. 1-4)
2. Interior lights (P. 2-31)
3. Front seat (P. 1-2)
4. Sun visors (P. 3-30)
5. Interior lights (P. 2-31)
6. Storage (P. 2-27)
7. Glove box (P. 2-29)
8. Parking brake, parking on hills (P. 5-19, 5-24)
9. Rear armrest (if so equipped) (P. 1-5)

See the page number indicated in parentheses for operating details.

Information Provided by:
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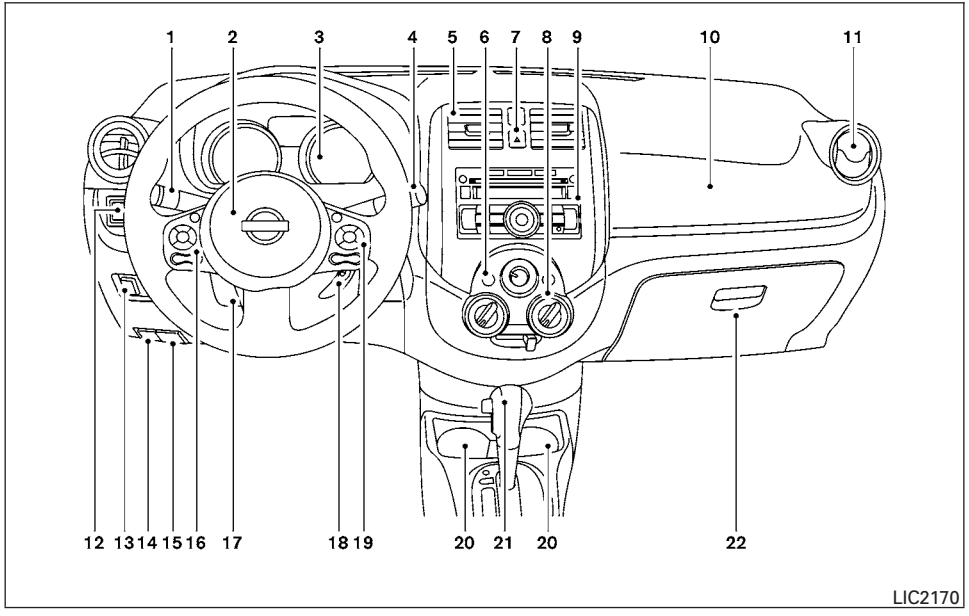
INSTRUMENT PANEL

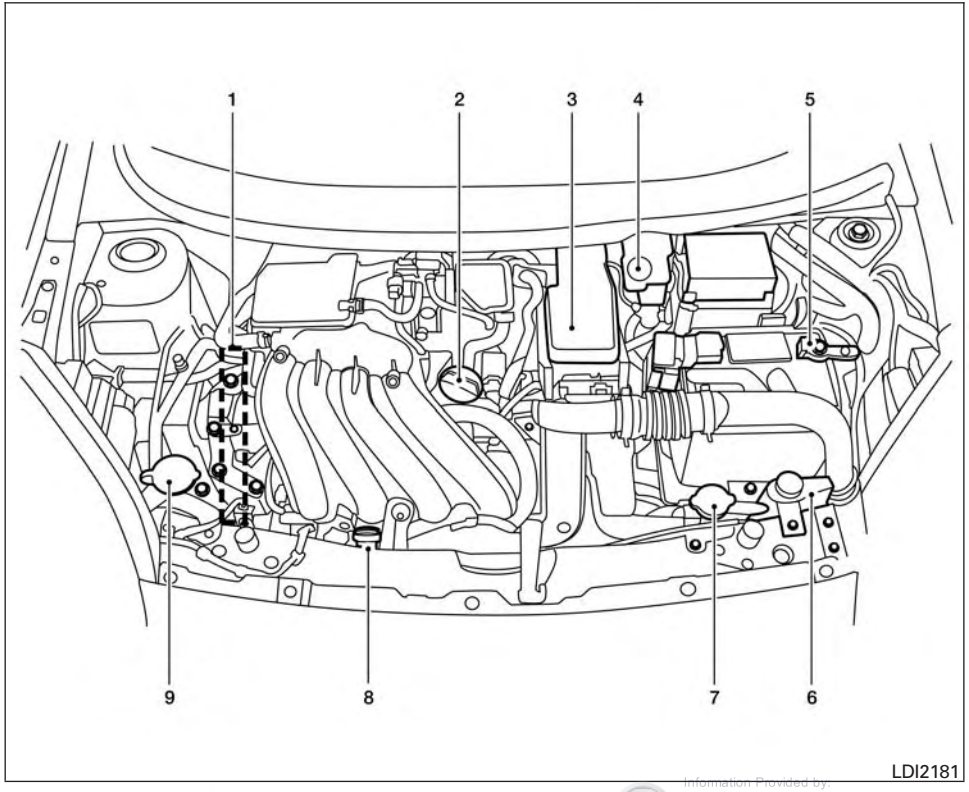


1. Headlight/turn signal switch (P. 2-22)
2. Driver's supplemental air bag /horn (P. 1-36, 2-25)
3. Meters and gauges (P. 2-3)
4. Windshield wiper/washer switch (P. 2-21)
5. Center vents (P. 4-13)
6. Rear window and outside mirror (if so equipped) defroster switch (P. 2-22)
7. Hazard warning flasher switch (P. 6-2)
8. Climate controls (P. 4-14)
9. Audio system (P. 4-31, 4-34, 4-38)
10. Passenger's supplemental air bag (P. 1-36)
11. Side vents (P. 4-13)
12. Electronic outside rearview mirror control switch (P.3-32)
13. Vehicle Dynamic Control (VDC) off switch (P. 2-25)
14. Fuel-filler lid release lever (P. 3-27)
15. Hood release lever (P. 3-24)
16. Audio control switches (if so equipped) (P.4-52)
17. Tilt steering (P. 3-30)
18. Ignition switch/Push button ignition switch (if so equipped) (P. 5-7, P. 5-9)
19. Cruise control (if so equipped) (P.5-20)
20. Cup holders (P. 2-28)
21. Shift selector (P. 5-15)
22. Glove box (P. 2-26)

See the page number indicated in parentheses for operating details.

DEALER E-PROCESS

ENGINE COMPARTMENT CHECK LOCATIONS



HR16DE Engine

1. Drive belt location (P. 8-16)
2. Engine oil filler cap (P. 8-9)
3. Air cleaner (P. 8-17)
4. Brake and clutch (*1) fluid reservoir (P. 8-12)
5. Battery (P. 8-13)
6. Engine coolant reservoir (P. 8-7)
7. Radiator cap (P. 8-7)
8. Engine oil dipstick (P. 8-9)
9. Windshield-washer fluid reservoir (P. 8-13)

*1 For Manual Transmission (M/T) model

See the page number indicated in parentheses for operating details.

Information Provided by:
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Warning light	Name	Page
ABS or	Anti-lock Braking System (ABS) warning light	2-12
BRAKE or	Brake warning light	2-12
	Charge warning light	2-13
	Door open warning light	2-13
	Engine oil pressure warning light	2-13
	High temperature warning light (red)	2-14

Warning light	Name	Page
or	Low fuel warning light	2-14
	Low tire pressure warning light (if so equipped)	2-14
KEY	NISSAN Intelligent Key® warning light (if so equipped)	2-15
PS	Power steering warning light	2-13
	Seat belt warning light and chime	2-16
P SHIFT	Shift P warning light (if so equipped)	2-16
	Supplemental air bag warning light	2-16

Indicator light	Name	Page
P	Automatic Transmission (A/T)/ Continuously Variable Transmission (CVT) position indicator light (if so equipped)	2-16
CRUISE	Cruise main switch indicator light (if so equipped)	2-16
SET	Cruise set switch indicator light (if so equipped)	2-17
	Engine start operation indicator (if so equipped)	2-17
OFF	Front passenger air bag status light	2-17
	High beam indicator light (blue)	2-17

Information Provided by: DEALER E-PROCESS

Indicator light	Name	Page
	Malfunction Indicator Light (MIL)	2-17
	Overdrive off indicator light (if so equipped)	2-18
	Security indicator light (if so equipped)	2-18
	Side and headlight indicator light (green) (if so equipped)	2-18
	Slip indicator light	2-18
	Turn signal/hazard indicator lights	2-18
	Vehicle Dynamic Control (VDC) off indicator light	2-18

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MEMO

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1 Safety—Seats, seat belts and supplemental restraint system

Seats 1-2
- Front manual seat adjustment 1-2
- Folding rear seat (if so equipped) 1-4
- Head restraints 1-5
- Removable head restraint 1-8

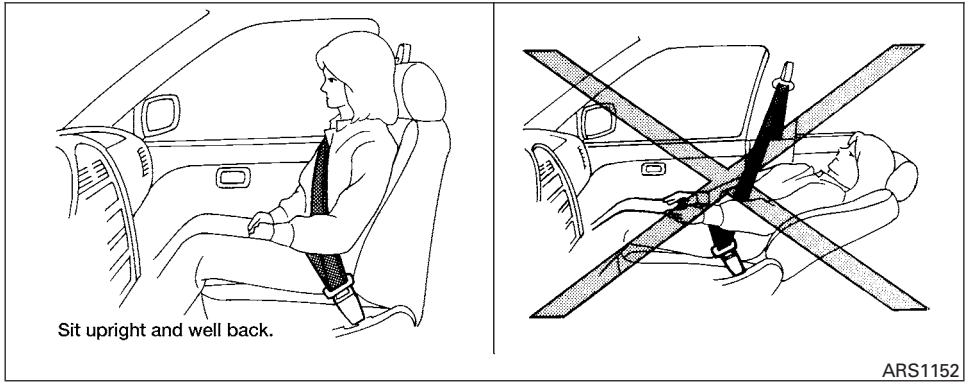
Seat belts 1-10
- Precautions on seat belt usage 1-10
- Pregnant women 1-13
- Injured persons 1-13
- Three-point type seat belt with retractor 1-13
- Seat belt extenders 1-16
- Seat belt maintenance 1-16

Child safety 1-17
- Infants 1-18
- Small children 1-18
- Larger children 1-18

Child restraints 1-19
- Precautions on child restraints 1-19
- LATCH (Lower Anchors and Tethers for CHildren) System 1-21
- Rear-facing child restraint installation using LATCH 1-22
- Rear-facing child restraint installation using the seat belts 1-24
- Forward-facing child restraint installation using LATCH 1-27
- Forward-facing child restraint installation using the seat belts 1-29
- Installing top tether strap 1-32
- Booster seats 1-32

Supplemental restraint system 1-36
- Precautions on supplemental restraint system 1-36
- Supplemental air bag warning labels 1-50
- Supplemental air bag warning light 1-51

Information Provided by:
DEALER E-PROCESS



⚠WARNING

- **Do not ride in a moving vehicle when the seatback is reclined. This can be dangerous. The shoulder belt will not be against your body. In an accident, you could be thrown into it and receive neck or other serious injuries. You could also slide under the lap belt and receive serious internal injuries.**
- **For the most effective protection when the vehicle is in motion, the seat should be upright. Always sit well back in the seat with both feet on the floor and adjust the seat properly. See "Precautions on seat belt usage" later in this section.**
- **After adjustment, gently rock in the seat to make sure it is securely locked.**
- **Do not leave children unattended inside the vehicle. They could unknowingly activate switches or controls. Unattended children could become involved in serious accidents.**
- **The seatback should not be reclined any more than needed for comfort. Seat belts are most effective when the passenger sits well back and straight up in the seat. If the seatback is reclined, the risk of sliding under the lap belt and being injured is increased.**

⚠CAUTION

When adjusting the seat positions, be sure not to contact any moving parts to avoid possible injuries and/or damage.

FRONT MANUAL SEAT ADJUSTMENT

Information Provided by:
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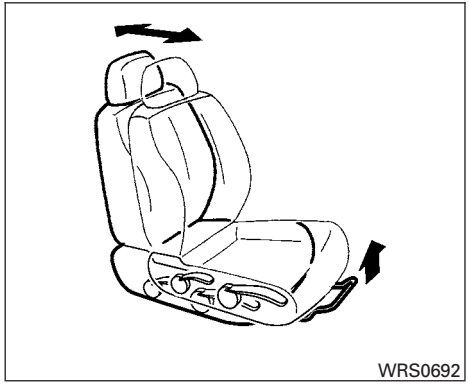
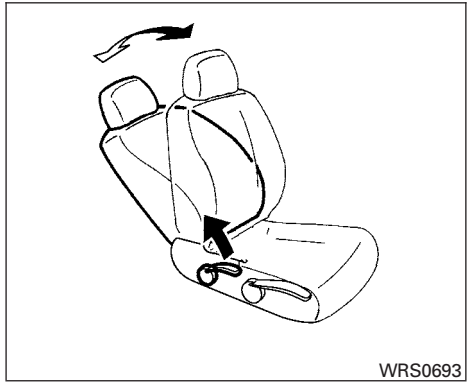


Forward and backward

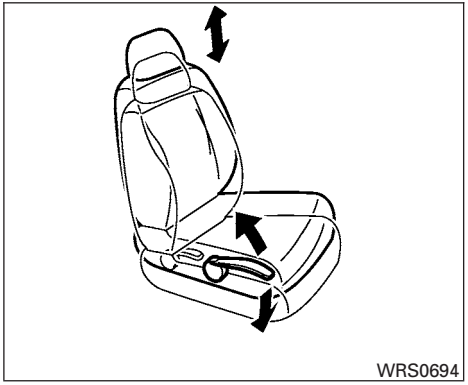
Pull the lever up and hold it while you slide the seat forward or backward to the desired position. Release the lever to lock the seat in position.



Reclining

To recline the seatback, pull the lever up and lean back. To bring the seatback forward, pull the lever up and lean your body forward. Release the lever to lock the seatback in position.

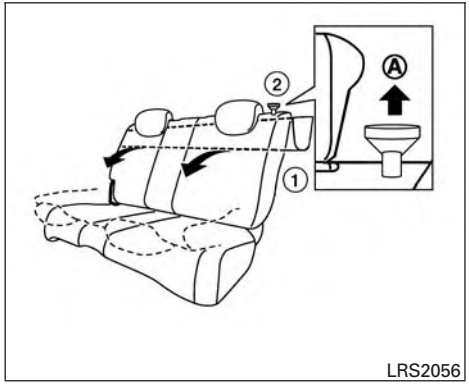
The reclining feature allows adjustment of the seatback for occupants of different sizes for added comfort and to help obtain proper seat belt fit. See “Precautions on seat belt usage” later in this section. Also, the seatback can be reclined to allow occupants to rest when the vehicle is stopped and the transmission is in P (Park) or N (Neutral) position with the parking brake fully applied.



Seat lifter (driver’s seat)

Pull up or push down the adjusting lever to adjust the seat height until the desired position is achieved.

Information Provided by:

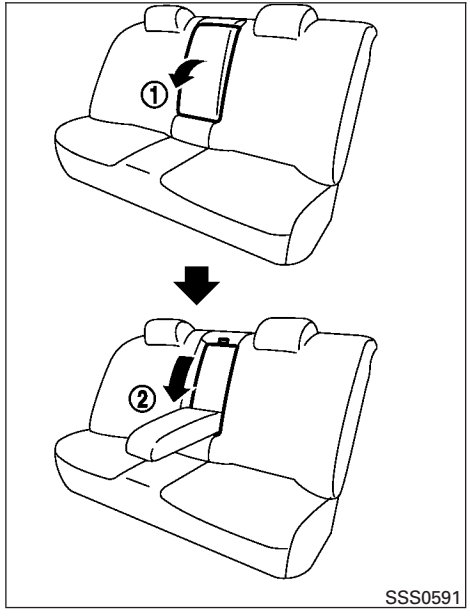


FOLDING REAR SEAT (if so equipped)

① Pull the knob Ⓐ to fold each seatback down.

⚠WARNING

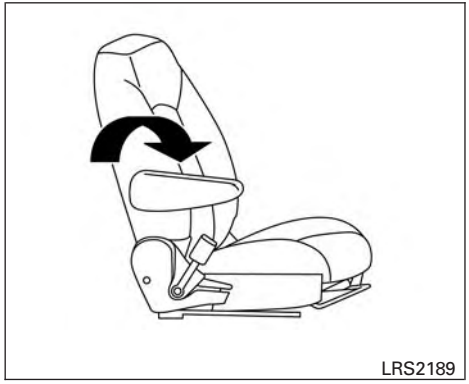
- **Never allow anyone to ride in the cargo area or on the rear seat when it is in the fold-down position. Use of these areas by passengers without proper restraints could result in serious injury in an accident or sudden stop.**
- **Properly secure all cargo with ropes or straps to help prevent it from sliding or shifting. Do not place cargo higher than the seatbacks. In a sudden stop or collision, unsecured cargo could cause personal injury.**
- **When returning the seatbacks to the upright position, be certain they are completely secured in the latched position. If they are not completely secured, passengers may be injured in an accident or sudden stop.**
- **Closely supervise children when they are around cars to prevent them from playing and becoming locked in the trunk where they could be seriously injured. Keep the car locked, with the rear seatback and trunk lid securely latched when not in use, and prevent children's access to car keys.**



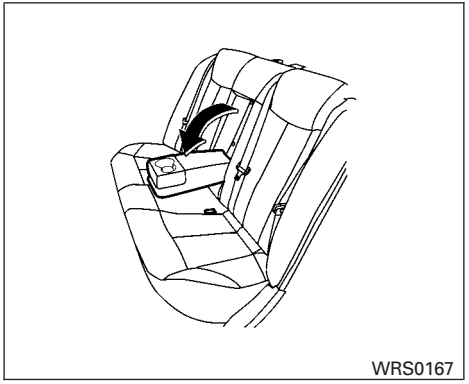
Interior trunk access (if so equipped)

Fold down the rear center armrest ① and open the trunk access panel ②.

Information Provided by:
DEALER PROCESS



Driver's seat armrest



Rear center armrest

Armrest (if so equipped)

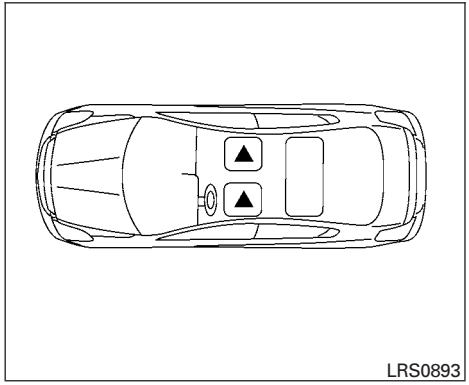
Pull the armrest down until it is horizontal.

HEAD RESTRAINTS

⚠ WARNING

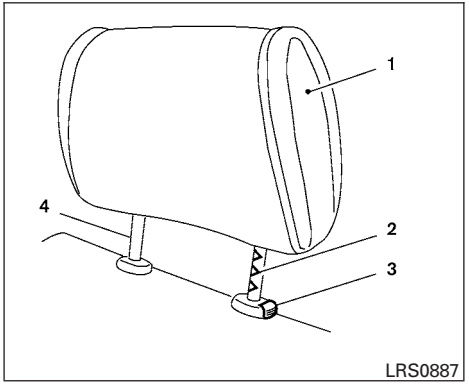
Head restraints supplement the other vehicle safety systems. They may provide additional protection against injury in certain rear end collisions. Adjust the head restraints properly, as specified in this section (only if your vehicle is equipped with adjustable head restraints). Check the adjustment after someone else uses the seat. Do not attach anything to the head restraint stalks or remove the head restraint. Do not use the seat if the head restraint has been removed. If the head restraint was removed, reinstall and properly adjust the head restraint before an occupant uses the seating position. Failure to follow these instructions can reduce the effectiveness of the head restraints. This may increase the risk of serious injury or death in a collision.

Information Provided by:
DEALER


LRS0893

The illustration shows the seating positions equipped with head restraints. Not all vehicles will have head restraints that are adjustable.

▲ Indicates the seating position is equipped with a head restraint.



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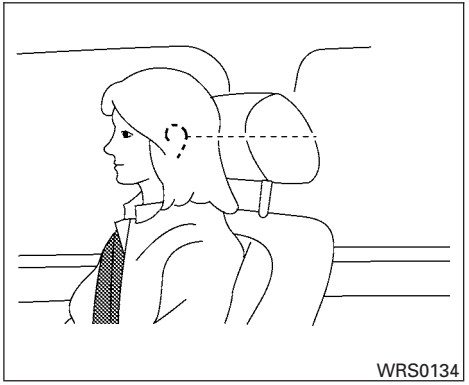
Components (if so equipped)

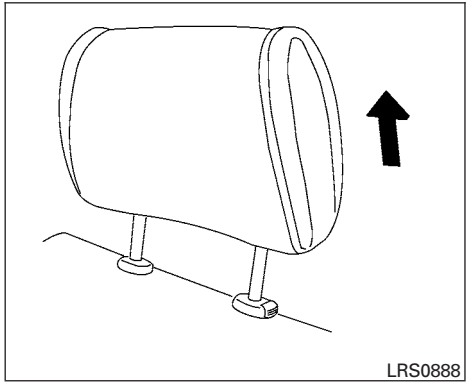
1. Head restraint
2. Adjustment notches
3. Lock knob
4. Stalks


WRS0134

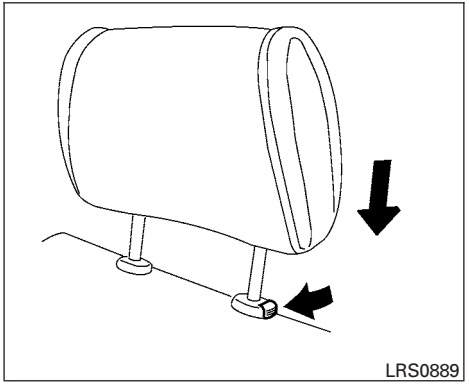
Adjustment (if so equipped)

Adjust the head restraint so the center is level with the center of the seat occupant's ears.

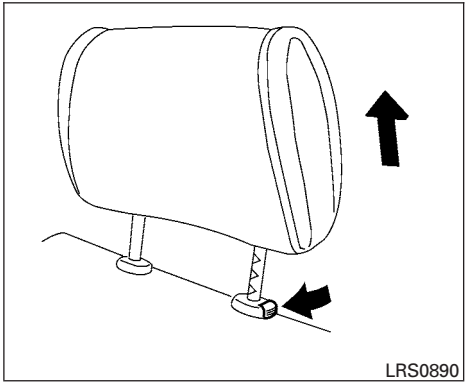
Information Provided by:
DEALER PROCESS



To raise the head restraint, pull it up.



To lower, push and hold the lock knob and push the head restraint down.

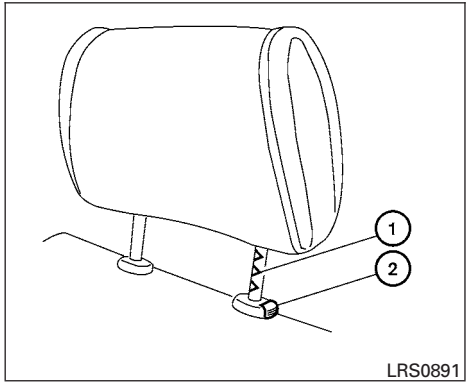


Removal (if so equipped)

Use the following procedure to remove the adjustable head restraints.

1. Pull the head restraint up to the highest position.
2. Push and hold the lock knob.
3. Remove the head restraint from the seat.
4. Store the head restraint properly so it is not loose in the vehicle.
5. Reinstall and properly adjust the head restraint before an occupant uses the seating position.

Information Provided by:
DEALER



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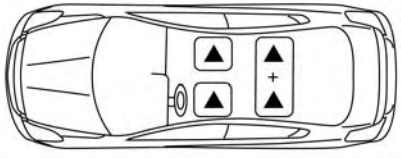
Install (if so equipped)

1. Align the head restraint stalks with the holes in the seat. Make sure the head restraint is facing the correct direction. The stalk with the adjustment notches ① must be installed in the hole with the lock knob ②.
2. Push and hold the lock knob and push the head restraint down.
3. Properly adjust the head restraint before an occupant uses the seating position.

REMOVABLE HEAD RESTRAINT

⚠WARNING

The removable head restraints supplement the other vehicle safety systems. They may provide additional protection against injury in certain rear end collisions. Do not attach anything to the removable head restraint stalks or remove the head restraint unless it is required when the rear seat is folded down. Do not use the seat if the head restraints have been removed. If the head restraint was removed, reinstall it before an occupant uses the seating position. Failure to follow these instructions can reduce the effectiveness of the removable head restraint. This may increase the risk of serious injury or death in a collision.



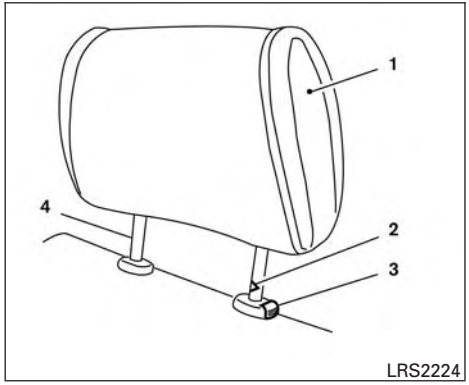
LRS2000

The illustration shows the seating positions equipped with removable head restraints.

▲ Indicates the seating position is equipped with a head restraint.

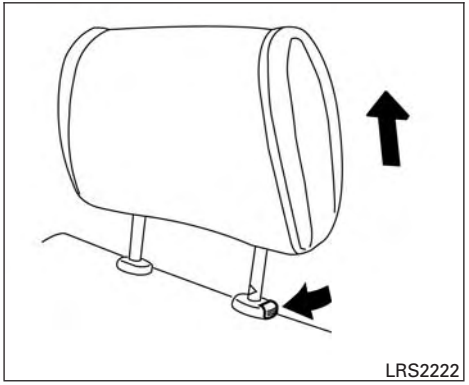
+ Indicates the seating position is not equipped with a head restraint or removable headrest.

Information Provided by:
DEALER PROCESS



Components

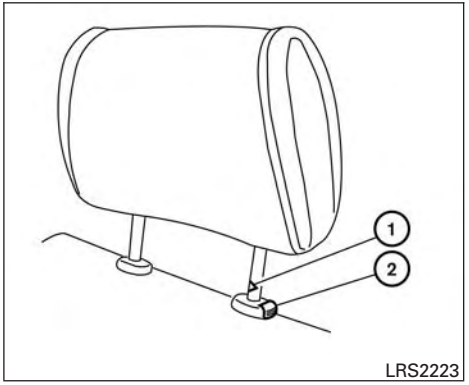
1. Removable head restraint
2. Notch
3. Lock knob
4. Stalks



Removal

Use the following procedure to remove the head restraints.

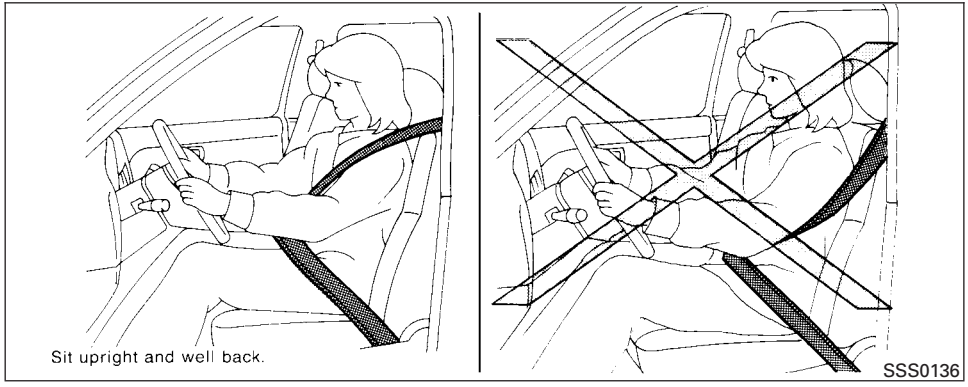
1. Push and hold the lock knob.
2. Pull the head restraint up and remove it from the seat.
3. Store the head restraint properly so it is not loose in the vehicle.
4. Reinstall the head restraint before an occupant uses the seating position.



Install

1. Align the head restraint stalks with the holes in the seat. Make sure the head restraint is facing the correct direction. The stalk with the notch ① must be installed in the hole with the lock knob ②.
2. Push and hold the lock knob and push the head restraint down.

Information Provided by:
DEALER

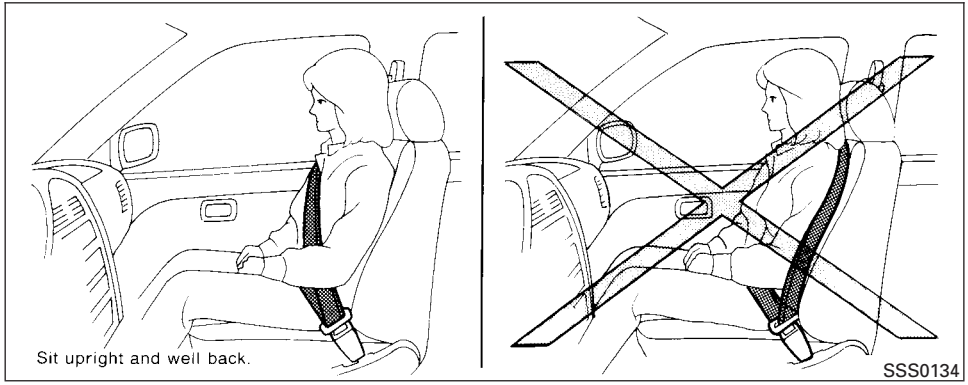


PRECAUTIONS ON SEAT BELT USAGE

If you are wearing your seat belt properly adjusted and you are sitting upright and well back in your seat with both feet on the floor, your chances of being injured or killed in an accident and/or the severity of injury may be greatly reduced. NISSAN strongly encourages you and all of your passengers to buckle up every time you drive, even if your seating position includes a supplemental air bag.

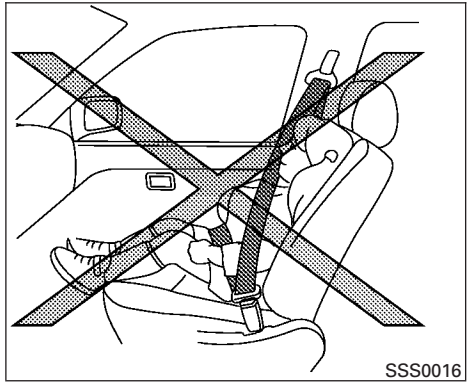
Most U.S. states and Canadian provinces or territories specify that seat belts be worn at all times when a vehicle is being driven.

Information Provided by:
DEALER PROCESS



⚠ WARNING

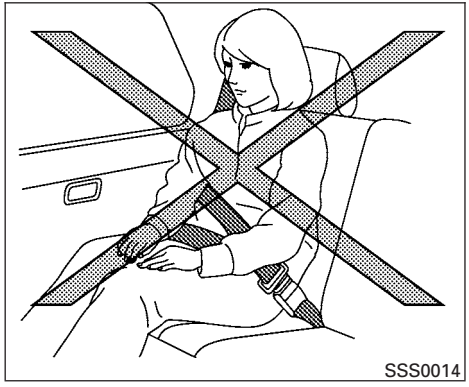
- **Every person who drives or rides in this vehicle should use a seat belt at all times. Children should be properly restrained in the rear seat and, if appropriate, in a child restraint.**



⚠ WARNING

- **The seat belt should be properly adjusted to a snug fit. Failure to do so may reduce the effectiveness of the entire restraint system and increase the chance or severity of injury in an accident. Serious injury or death can occur if the seat belt is not worn properly.**

Information Provided by:
DEALER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⚠ WARNING

- **Always route the shoulder belt over your shoulder and across your chest. Never put the belt behind your back, under your arm or across your neck. The belt should be away from your face and neck, but not falling off your shoulder.**
- **Position the lap belt as low and snug as possible AROUND THE HIPS, NOT THE WAIST. A lap belt worn too high could increase the risk of internal injuries in an accident.**
- **Be sure the seat belt tongue is securely fastened to the proper buckle.**
- **Do not wear the seat belt inside out or twisted. Doing so may reduce its effectiveness.**
- **Do not allow more than one person to use the same seat belt.**
- **Never carry more people in the vehicle than there are seat belts.**
- **If the seat belt warning light glows continuously while the ignition is turned ON with all doors closed and all seat belts fastened, it may indicate a malfunction in the system. Have the system checked by a NISSAN dealer.**
- **No changes should be made to the seat belt system. For example, do not modify the seat belt, add material, or install devices that may change the seat belt routing or tension. Doing so may affect the operation of the seat belt system. Modifying or tampering with the seat belt system may result in serious personal injury.**
- **Once a seat belt pretensioner has activated, it cannot be reused and must be replaced together with the retractor. See your NISSAN dealer.**
- **Removal and installation of pretensioner system components should be done by a NISSAN dealer.**
- **All seat belt assemblies, including retractors and attaching hardware, should be inspected after any collision by a NISSAN dealer. NISSAN recommends that all seat belt assemblies in use during a collision be replaced unless the collision was minor and the belts show no damage and continue to operate properly. Seat belt assemblies not in use during a collision should also be inspected and replaced if either damage or improper operation is noted.**
- **All child restraints and attaching hardware should be inspected after any collision. Always follow the restraint manufacturer's inspection instructions and replacement recommendations. The child restraints should be replaced if they are damaged.**

Information Provided by: DEALER PROCESS

PREGNANT WOMEN

NISSAN recommends that pregnant women use seat belts. The seat belt should be worn snug and always position the lap belt as low as possible around the hips, not the waist. Place the shoulder belt over your shoulder and across your chest. Never run the lap/shoulder belt over your abdominal area. Contact your doctor for specific recommendations.

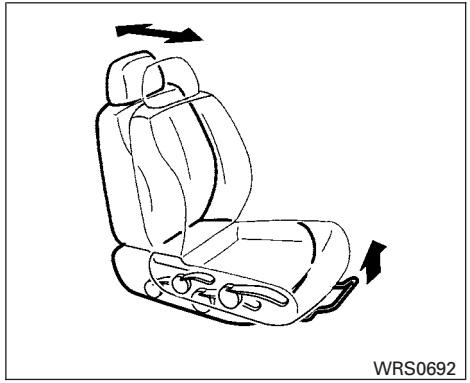
INJURED PERSONS

NISSAN recommends that injured persons use seat belts. Check with your doctor for specific recommendations.

THREE-POINT TYPE SEAT BELT WITH RETRACTOR

⚠ WARNING

- **Every person who drives or rides in this vehicle should use a seat belt at all times.**
- **Do not ride in a moving vehicle when the seatback is reclined. This can be dangerous. The shoulder belt will not be against your body. In an accident, you could be thrown into it and receive neck or other serious injuries. You could also slide under the lap belt and receive serious internal injuries.**
- **For the most effective protection when the vehicle is in motion, the seat should be upright. Always sit well back in the seat with both feet on the floor and adjust the seat belt properly.**
- **Do not allow children to play with the seat belts. Most seating positions are equipped with Automatic Locking Retractor (ALR) mode seat belts. If the seat belt becomes wrapped around a child's neck with the ALR mode activated, the child can be seriously injured or killed if the seat belt retracts and becomes tight. This can occur even if the vehicle is parked. Unbuckle the seat belt to release the child. If the seat belt cannot be unbuckled or is already unbuckled, release the child by cutting the seat belt with a suitable tool (such as a knife or scissors) to release the seat belt.**

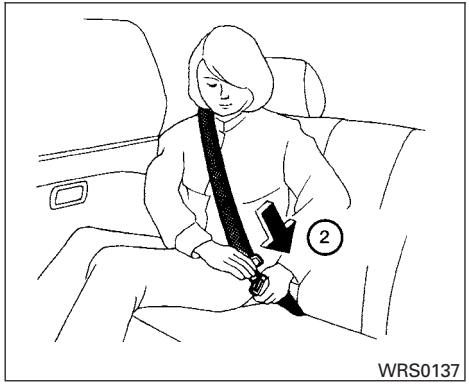


Manual front seat shown

Fastening the seat belts

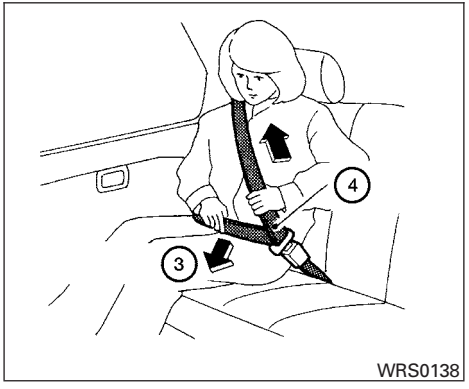
1. Adjust the seat. See "Seats" earlier in this section.

Information Provided by:



② Slowly pull the seat belt out of the retractor and insert the tongue into the buckle until you hear and feel the latch engage.

- **The retractor is designed to lock during a sudden stop or on impact. A slow pulling motion permits the seat belt to move, and allows you some freedom of movement in the seat.**
- **If the seat belt cannot be pulled from its fully retracted position, firmly pull the belt and release it. Then smoothly pull the belt out of the retractor.**



③ Position the lap belt portion **low and snug on the hips** as shown.

④ Pull the shoulder belt portion toward the retractor to take up extra slack. Be sure the shoulder belt is routed over your shoulder and across your chest.

The front passenger seat and the rear seating positions three-point seat belts have two modes of operation:

- Emergency Locking Retractor (ELR)
- Automatic Locking Retractor (ALR)

The Emergency Locking Retractor (ELR) mode allows the seat belt to extend and retract to allow the driver and passengers some freedom of movement in the seat. The ELR locks the seat belt when the vehicle slows down rapidly or during certain impacts.

The Automatic Locking Retractor (ALR) mode (child restraint mode) locks the seat belt for child restraint installation.

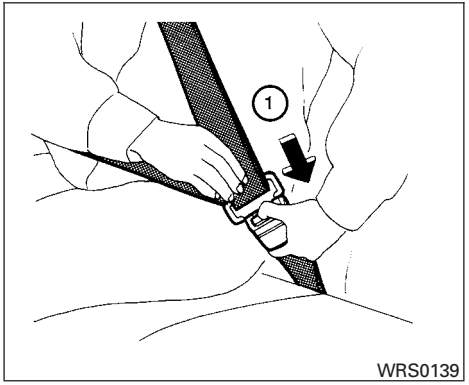
When the ALR mode is activated, the seat belt cannot be extended again until the seat belt tongue is detached from the buckle and fully retracted. The seat belt returns to the ELR mode after the seat belt fully retracts. See “Child restraints” later in this section for more information.

The ALR mode should be used only for child restraint installation. During normal seat belt use by an occupant, the ALR mode should not be activated. If it is activated, it may cause uncomfortable seat belt tension. It can also change the operation of the front passenger air bag. See “Front passenger air bag and status light” later in this section.

Information Provided by:
DEALER PROCESS

⚠WARNING

When fastening the seat belts, be certain that the seatbacks are completely secured in the latched position. If they are not completely secured, passengers may be injured in an accident or sudden stop.



Unfastening the seat belts

① To unfasten the seat belt, press the button on the buckle. The seat belt automatically retracts.

Checking seat belt operation

Seat belt retractors are designed to lock seat belt movement by two separate methods:

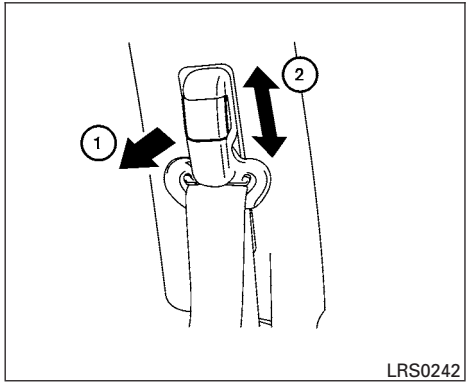
- When the seat belt is pulled quickly from the retractor.
- When the vehicle slows down rapidly.

To increase your confidence in the seat belts, check the operation as follows:

- Grasp the shoulder belt and pull forward quickly. The retractor should lock and restrict further belt movement.

If the retractor does not lock during this check or if you have any questions about seat belt operation, see a NISSAN dealer.

Information Provided by:



Shoulder belt height adjustment (front seats)

The shoulder belt anchor height should be adjusted to the position best for you. See “Precautions on seat belt usage” earlier in this section. To adjust, pull out the adjustment button ① and move the shoulder belt anchor to the desired position ②, so the belt passes over the center of the shoulder. The belt should be away from your face and neck, but not falling off your shoulder. Release the adjustment button to lock the shoulder belt anchor into position.

⚠WARNING

- **After adjustment, release the adjustment button and try to move the shoulder belt anchor up and down to make sure it is securely fixed in position.**
- **The shoulder belt anchor height should be adjusted to the position best for you. Failure to do so may reduce the effectiveness of the entire restraint system and increase the chance or severity of injury in an accident.**

SEAT BELT EXTENDERS

If, because of body size or driving position, it is not possible to properly fit the lap/shoulder belt and fasten it, an extender that is compatible with the installed seat belts is available that can be purchased. The extender adds approximately 8 in (200 mm) of length and may be used for either the driver or front passenger seating position. See a NISSAN dealer for assistance with purchasing an extender if an extender is required.

⚠WARNING

- **Only NISSAN seat belt extenders, made by the same company which made the original equipment seat belts, should be used with NISSAN seat belts.**
- **Adults and children who can use the standard seat belt should not use an extender. Such unnecessary use could result in serious personal injury in the event of an accident.**
- **Never use seat belt extenders to install child restraints. If the child restraint is not secured properly, the child could be seriously injured in a collision or a sudden stop.**

SEAT BELT MAINTENANCE

- **To clean the seat belt webbing,** apply a mild soap solution or any solution recommended for cleaning upholstery or carpet. Then wipe with a cloth and allow the seat belts to dry in the shade. Do not allow the seat belts to retract until they are completely dry.
- **If dirt builds up in the shoulder belt guide** of the seat belt anchors, the seat belts may retract slowly. Wipe the shoulder belt guide with a clean, dry cloth.

Information Provided by: DEALER PROCESS

- **Periodically check to see that the seat belt and the metal components,** such as buckles, tongues, retractors, flexible wires and anchors, work properly. If loose parts, deterioration, cuts or other damage on the webbing is found, the entire seat belt assembly should be replaced.

⚠WARNING

Do not allow children to play with the seat belts. Most seating positions are equipped with Automatic Locking Retractor (ALR) mode seat belts. If the seat belt becomes wrapped around a child's neck with the ALR mode activated, the child can be seriously injured or killed if the seat belt retracts and becomes tight. This can occur even if the vehicle is parked. Unbuckle the seat belt to release the child. If the seat belt cannot be unbuckled or is already unbuckled, release the child by cutting the seat belt with a suitable tool (such as a knife or scissors) to release the seat belt.

Children need adults to help protect them. They need to be properly restrained.

In addition to the general information in this manual, child safety information is available from many other sources, including doctors, teachers, government traffic safety offices, and community organizations. Every child is different, so be sure to learn the best way to transport your child.

There are three basic types of child restraint systems:

- Rear-facing child restraint
- Forward-facing child restraint
- Booster seat

The proper restraint depends on the child's size. Generally, infants up to about 1 year and less than 20 lbs (9 kg) should be placed in rear-facing child restraints. Forward-facing child restraints are available for children who outgrow rear-facing child restraints and are at least 1 year old. Booster seats are used to help position a vehicle lap/shoulder belt on a child who can no longer use a forward-facing child restraint.

⚠WARNING

Infants and children need special protection. The vehicle's seat belts may not fit them properly. The shoulder belt may come too close to the face or neck. The lap belt may not fit over their small hip bones. In an accident, an improperly fitting seat belt could cause serious or fatal injury. Always use appropriate child restraints.

All U.S. states and Canadian provinces or territories require the use of approved child restraints for infants and small children. See "Child restraints" later in this section.

Information Provided by:

A child restraint may be secured in the vehicle by using either the LATCH (Lower Anchor and Tethers for CHildren) system or with the vehicle seat belt. See “Child restraints” later in this section for more information.

NISSAN recommends that all pre-teens and children be restrained in the rear seat. Studies show that children are safer when properly restrained in the rear seat than in the front seat.

This is especially important because your vehicle has a supplemental restraint system (air bag system) for the front passenger. See “Supplemental restraint system” later in this section.

INFANTS

Infants up to at least 1 year old should be placed in a rear-facing child restraint. NISSAN recommends that infants be placed in child restraints that comply with Federal Motor Vehicle Safety Standards or Canadian Motor Vehicle Safety Standards. You should choose a child restraint that fits your vehicle and always follow the manufacturer’s instructions for installation and use.

SMALL CHILDREN

Children that are over 1 year old and weigh at least 20 lbs (9 kg) should remain in a rear-facing child restraint as long as possible up to the height or weight limit of the child restraint. Children who outgrow the height or weight limit of the rear-facing child restraint and are at least 1 year old should be secured in a forward-facing child restraint with a harness. Refer to the manufacturer’s instructions for minimum and maximum weight and height recommendations. NISSAN recommends that small children be placed in child restraints that comply with Federal Motor Vehicle Safety Standards or Canadian Motor Vehicle Safety Standards. You should choose a child restraint that fits your vehicle and always follow the manufacturer’s instructions for installation and use.

LARGER CHILDREN

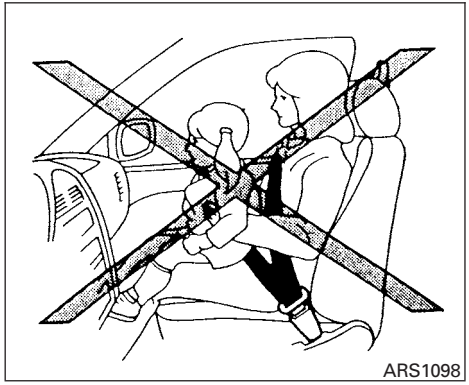
Children should remain in a forward-facing child restraint with a harness until they reach the maximum height or weight limit allowed by the child restraint manufacturer.

Once a child outgrows the height or weight limit of the harness-equipped forward-facing child restraint, NISSAN recommends that the child be placed in a commercially available booster seat to obtain proper seat belt fit. For a seat belt to fit properly, the booster seat should raise the child so that the shoulder belt is properly positioned across the chest and the top, middle portion of the shoulder. The shoulder belt should not cross the neck or face and should not fall off the shoulder. The lap belt should lie snugly across the lower hips or upper thighs, not the abdomen. A booster seat can only be used in seating positions that have a three-point type seat belt. The booster seat should fit the vehicle seat and have a label certifying that it complies with Federal Motor Vehicle Safety Standards or Canadian Motor Vehicle Safety Standards. Once the child has grown so the shoulder belt is no longer on or near the face and neck and the lap belt can be positioned properly across the lower hips or upper thighs use the seat belt without the booster seat.

⚠ WARNING

Never let a child stand or kneel on any seat and do not allow a child in the cargo area. The child could be seriously injured or killed in a sudden stop or collision.

Information Provided by: DEALER PROCESS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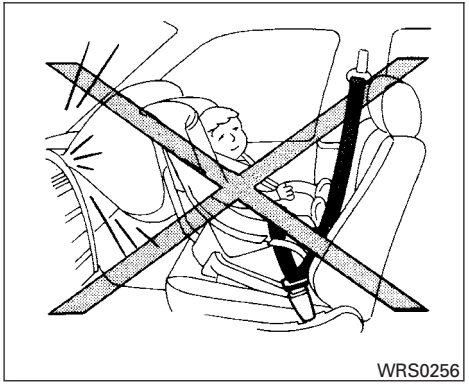
PRECAUTIONS ON CHILD RESTRAINTS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⚠ WARNING

- **Failure to follow the warnings and instructions for proper use and installation of child restraints could result in serious injury or death of a child or other passengers in a sudden stop or collision:**
  - **The child restraint must be used and installed properly. Always follow all of the child restraint manufacturer's instructions for installation and use.**
  - **Infants and children should never be held on anyone's lap. Even the strongest adult cannot resist the forces of a collision.**
  - **Do not put a seat belt around both a child and another passenger.**
  - **NISSAN recommends that all child restraints be installed in the rear seat. Studies show that children are safer when properly restrained in the rear seat than in the front seat. If you must install a forward-facing child restraint in the front seat, see "Forward-facing child restraint installation using the seat belts" later in this section.**
  - **Even with the NISSAN Advanced Air Bag System, never install a rear-facing child restraint in the front seat. An inflating air bag could seriously injure or kill a child. A rear-facing child restraint must only be used in the rear seat.**
  - **Be sure to purchase a child restraint that will fit the child and vehicle. Some child restraints may not fit properly in your vehicle.**

Information Provided by:

- **– Child restraint anchor points are designed to withstand loads from child restraints that are properly fitted.**
- **– Never use the anchor points for adult seat belts or harnesses.**
- **– A child restraint with a top tether strap should not be used in the front passenger seat.**
- **– Keep seatbacks as upright as possible after fitting the child restraint.**
- **– Infants and children should always be placed in an appropriate child restraint while in the vehicle.**

- **When the child restraint is not in use, keep it secured with the LATCH system or a seat belt. In a sudden stop or collision, loose objects can injure occupants or damage the vehicle.**

⚠ CAUTION

A child restraint in a closed vehicle can become very hot. Check the seating surface and buckles before placing a child in the child restraint.

This vehicle is equipped with a universal child restraint anchor system, referred to as the LATCH (Lower Anchors and Tethers for CHildren) system. Some child restraints include rigid or webbing-mounted attachments that can be connected to these anchors. For details, see "LATCH (Lower Anchors and Tethers for CHildren) system" later in this section.

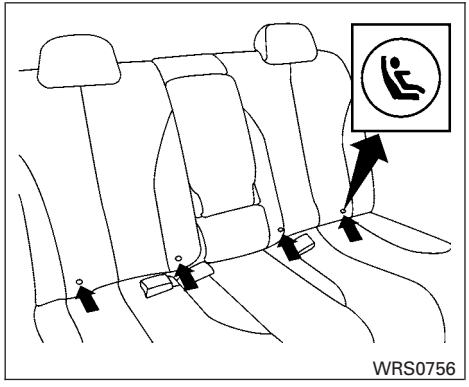
If you do not have a LATCH compatible child restraint, the vehicle seat belts can be used.

Several manufacturers offer child restraints for infants and children of various sizes. When selecting any child restraint, keep the following points in mind:

- Choose only a restraint with a label certifying that it complies with Federal Motor Vehicle Safety Standard 213 or Canadian Motor Vehicle Safety Standard 213.
- Check the child restraint in your vehicle to be sure it is compatible with the vehicle's seat and seat belt system.
- If the child restraint is compatible with your vehicle, place your child in the child restraint and check the various adjustments to be sure the child restraint is compatible with your child. Choose a child restraint that is designed for your child's height and weight. Always follow all recommended procedures.

All U.S. states and Canadian provinces or territories require that infants and small children be restrained in an approved child restraint at all times while the vehicle is being operated. Canadian law requires the top tether strap on forward-facing child restraints be secured to the designated anchor point on the vehicle.

Information Provided by:
DEALER PROCESS



LATCH system lower anchor locations

LATCH (Lower Anchors and Tethers for CHildren) SYSTEM

Your vehicle is equipped with special anchor points that are used with LATCH (Lower Anchors and Tethers for CHildren) system compatible child restraints. This system may also be referred to as the ISOFIX or ISOFIX compatible system. With this system, you do not have to use a vehicle seat belt to secure the child restraint.

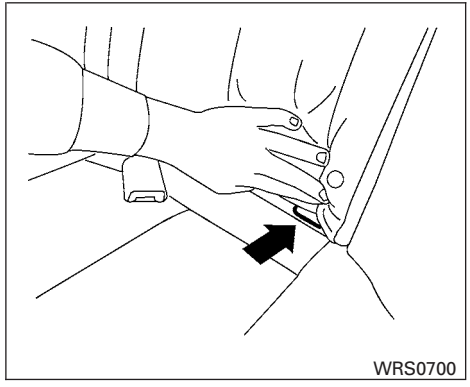
The LATCH anchor points are provided to install child restraints in the rear outboard seating positions only. Do not attempt to install a child restraint in the center position using the LATCH anchors.

LATCH lower anchor

⚠WARNING

Failure to follow the warnings and instructions for proper use and installation of child restraints could result in serious injury or death of a child or other passengers in a sudden stop or collision:

- **Attach LATCH system compatible child restraints only at the locations shown in the illustration.**
- **Do not secure a child restraint in the center rear seating position using the LATCH lower anchors. The child restraint will not be secured properly.**
- **Inspect the lower anchors by inserting your fingers into the lower anchor area. Feel to make sure there are no obstructions over the anchors such as seat belt webbing or seat cushion material. The child restraint will not be secured properly if the lower anchors are obstructed.**

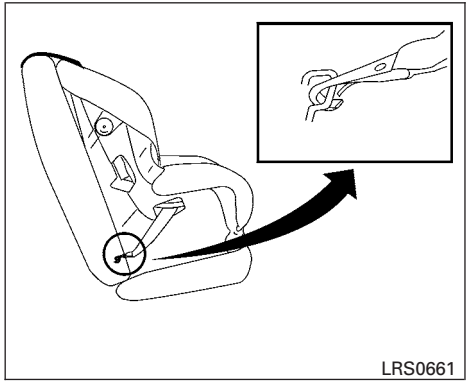


LATCH lower anchor location

LATCH lower anchor location

The LATCH lower anchors are located at the rear of the seat cushion near the seatback. A label is attached to the seatback to help you locate the LATCH lower anchors.

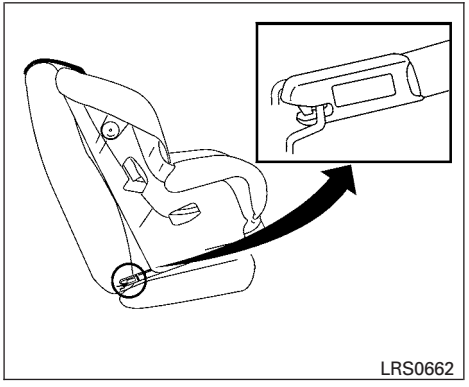
Information Provided by:
DEALER



LATCH webbing-mounted attachment

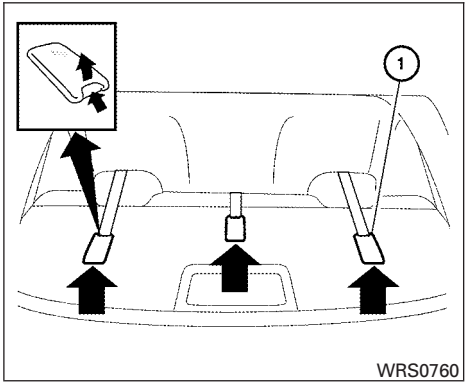
Installing child restraint LATCH lower anchor attachments

LATCH compatible child restraints include two rigid or webbing-mounted attachments that can be connected to two anchors located at certain seating positions in your vehicle. With this system, you do not have to use a vehicle seat belt to secure the child restraint. Check your child restraint for a label stating that it is compatible with LATCH. This information may also be in the instructions provided by the child restraint manufacturer.



LATCH rigid-mounted attachment

When installing a child restraint, carefully read and follow the instructions in this manual and those supplied with the child restraint.



Top tether anchor point locations

Anchor points are located on the rear parcel shelf ①.

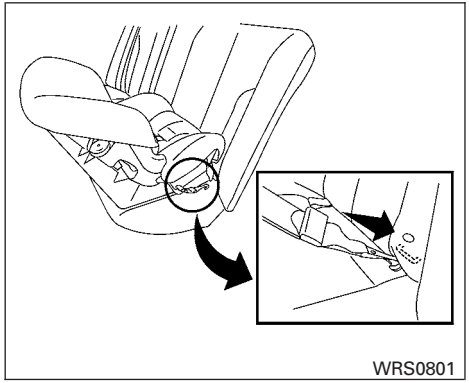
REAR-FACING CHILD RESTRAINT INSTALLATION USING LATCH

Refer to all Warnings and Cautions in the “Child safety” and “Child restraints” sections before installing a child restraint.

Follow these steps to install a rear-facing child restraint using the LATCH system:

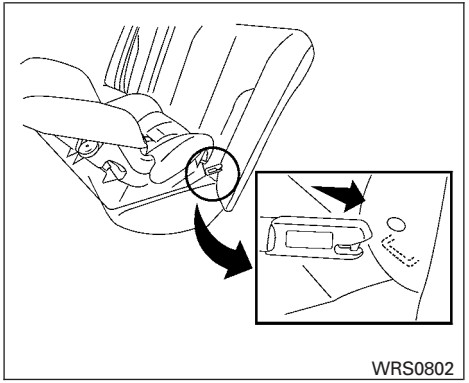
1. Position the child restraint on the seat. Always follow the child restraint manufacturer’s instructions.

Information Provided by:
DEALER CONNECT

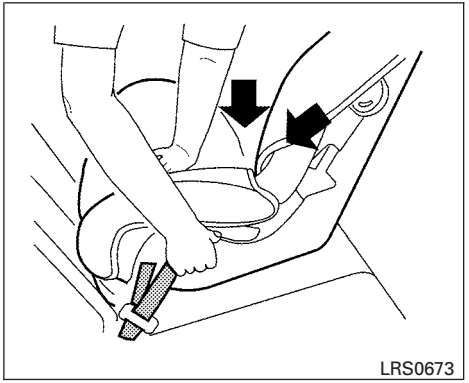


Rear-facing web-mounted – step 2

2. Secure the child restraint anchor attachments to the LATCH lower anchors. Check to make sure the LATCH attachment is properly attached to the lower anchors.



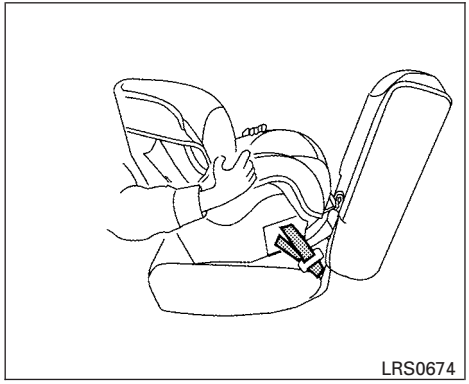
Rear-facing rigid-mounted – step 2



Rear-facing – step 3

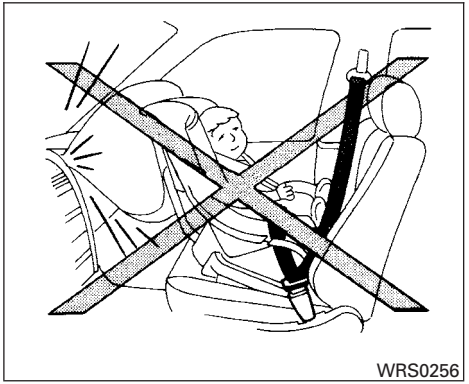
3. For child restraints that are equipped with webbing-mounted attachments, remove any additional slack from the anchor attachments. Press downward and rearward firmly in the center of the child restraint with your hand to compress the vehicle seat cushion and seatback while tightening the webbing of the anchor attachments.

Information Provided by:
DEALER



Rear-facing – step 4

4. After attaching the child restraint, test it before you place the child in it. Push it from side to side while holding the child restraint near the LATCH attachment path. The child restraint should not move more than 1 inch (25 mm), from side to side. Try to tug it forward and check to see if the LATCH attachment holds the restraint in place. If the restraint is not secure, tighten the LATCH attachment as necessary, or put the restraint in another seat and test it again. You may need to try a different child restraint or try installing by using the vehicle seat belt (if applicable). Not all child restraints fit in all types of vehicles.
5. Check to make sure the child restraint is properly secured prior to each use. If the child restraint is loose, repeat steps 1 through 4.

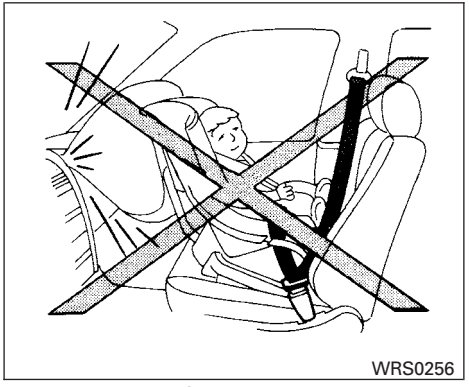


REAR-FACING CHILD RESTRAINT INSTALLATION USING THE SEAT BELTS

Information Provided by:
DEALER PROCESS

⚠WARNING

The three-point seat belt with Automatic Locking Retractor (ALR) must be used when installing a child restraint. Failure to use the ALR mode will result in the child restraint not being properly secured. The restraint could tip over or be loose and cause injury to a child in a sudden stop or collision. Also, it can change the operation of the front passenger air bag. See "Front passenger air bag and status light" later in this section.

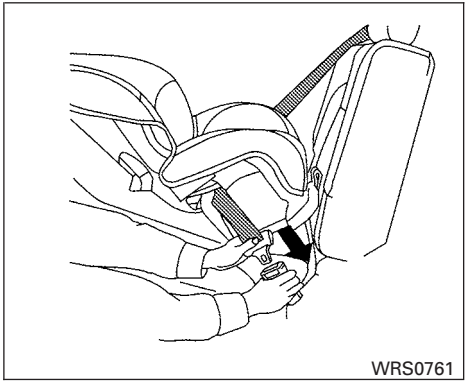


Rear-facing – step 1

Refer to all Warnings and Cautions in the "Child safety" and "Child restraints" sections before installing a child restraint.

Follow these steps to install a rear-facing child restraint using the vehicle seat belts in the rear seats:

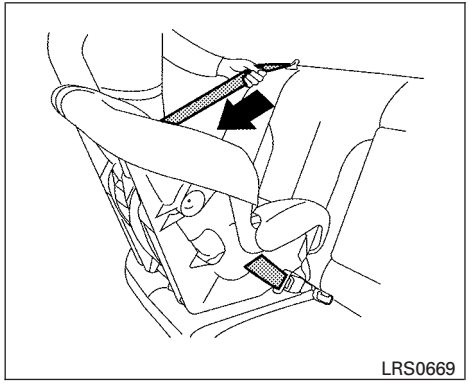
1. **Child restraints for infants must be used in the rear-facing direction and therefore must not be used in the front seat.** Position the child restraint on the seat. Always follow the restraint manufacturer's instructions.



Rear-facing – step 2

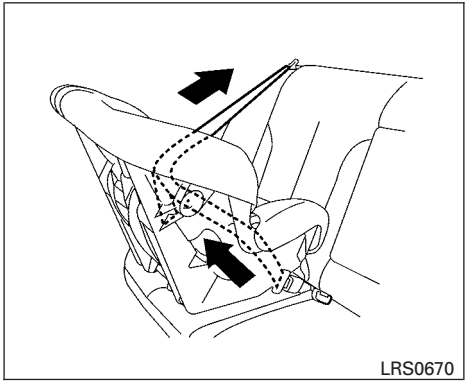
2. Route the seat belt tongue through the child restraint and insert it into the buckle until you hear and feel the latch engage. Be sure to follow the child restraint manufacturer's instructions for belt routing.

Information Provided by:



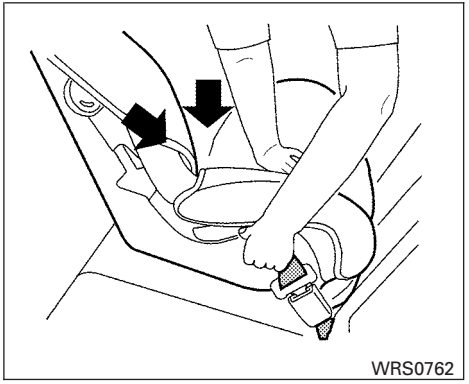
Rear-facing – step 3

3. Pull the shoulder belt until the belt is fully extended. At this time, the seat belt retractor is in the Automatic Locking Retractor (ALR) mode (child restraint mode). It reverts to the Emergency Locking Retractor (ELR) mode when the seat belt is fully retracted.



Rear-facing – step 4

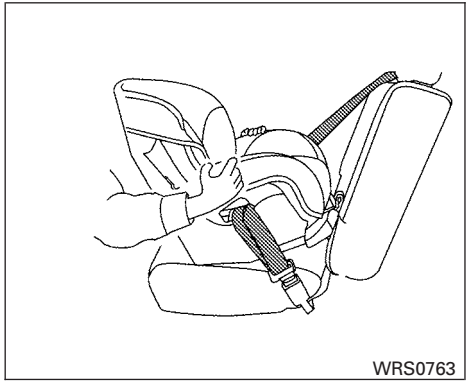
4. Allow the seat belt to retract. Pull up on the shoulder belt to remove any slack in the belt.



Rear-facing – step 5

5. Remove any additional slack from the seat belt; press downward and rearward firmly in the center of the child restraint to compress the vehicle seat cushion and seatback while pulling up on the seat belt.

Information Provided by:
DEALER PROCESS



Rear-facing – step 6

6. After attaching the child restraint, test it before you place the child in it. Push it from side to side while holding the child restraint near the seat belt path. The child restraint should not move more than 1 inch (25 mm), from side to side. Try to tug it forward and check to see if the belt holds the restraint in place. If the restraint is not secure, tighten the seat belt as necessary, or put the restraint in another seat and test it again. You may need to try a different child restraint. Not all child restraints fit in all types of vehicles.
7. Check to make sure that the child restraint is properly secured prior to each use. If the seat belt is not locked, repeat steps 1 through 6.

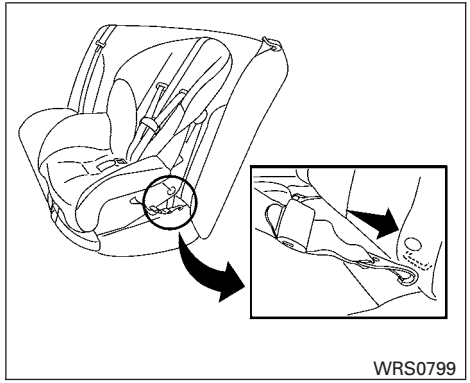
After the child restraint is removed and the seat belt fully retracted, the ALR mode (child restraint mode) is canceled.

FORWARD-FACING CHILD RESTRAINT INSTALLATION USING LATCH

Refer to all Warnings and Cautions in the “Child safety” and “Child restraints” sections before installing a child restraint.

Follow these steps to install a forward-facing child restraint using the LATCH system:

1. Position the child restraint on the seat. Always follow the child restraint manufacturer’s instructions.

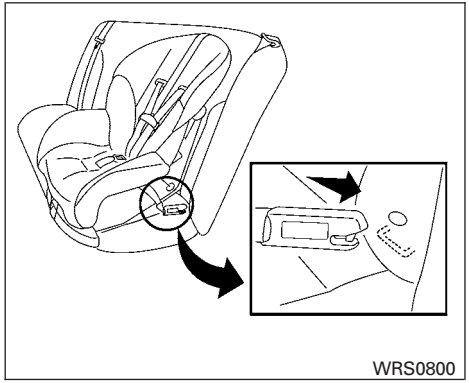


Forward-facing web-mounted – step 2

2. Secure the child restraint anchor attachments to the LATCH lower anchors. Check to make sure the LATCH attachment is properly attached to the lower anchors.

   If the child restraint is equipped with a top tether strap, route the top tether strap and secure the tether strap to the tether anchor point. See “Installing top tether strap” in this section. Do not install child restraints that require the use of a top tether anchor.

Information Provided by:

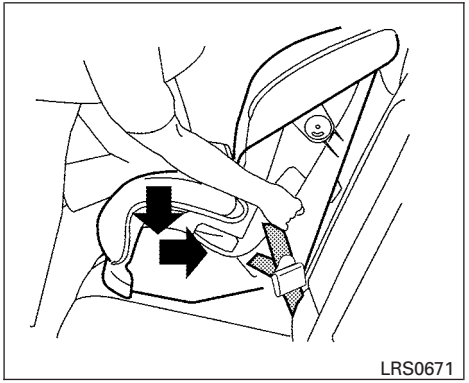


Forward-facing rigid-mounted – step 2

3. The back of the child restraint should be secured against the vehicle seatback.

   If necessary, adjust or remove the head restraint to obtain the correct child restraint fit. If the head restraint is removed, store it in a secure place. **Be sure to reinstall the head restraint when the child restraint is removed.** See “Head restraints” in this section for head restraint adjustment information.

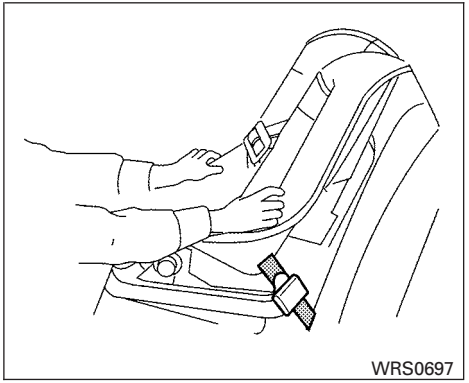
   If the seating position does not have an adjustable head restraint and it is interfering with the proper child restraint fit, try another seating position or a different child restraint.



Forward-facing – step 4

4. For child restraints that are equipped with webbing-mounted attachments, remove any additional slack from the anchor attachments. Press downward and rearward firmly in the center of the child restraint with your knee to compress the vehicle seat cushion and seatback while tightening the webbing of the anchor attachments.

5. Tighten the tether strap according to the manufacturer’s instructions to remove any slack.



Forward-facing – step 6

6. After attaching the child restraint, test it before you place the child in it. Push it from side to side while holding the child restraint near the LATCH attachment path. The child restraint should not move more than 1 inch (25 mm), from side to side. Try to tug it forward and check to see if the LATCH attachment holds the restraint in place. If the restraint is not secure, tighten the LATCH attachment as necessary, or put the restraint in another seat and test it again. You may need to try a different child restraint. Not all child restraints fit in all types of vehicles.

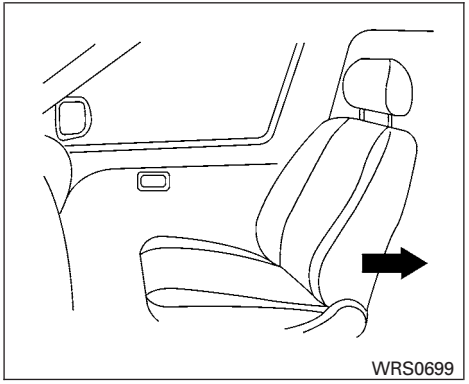
Information Provided by:
DEALER PROCESS

7. Check to make sure the child restraint is properly secured prior to each use. If the child restraint is loose, repeat steps 1 through 6.

FORWARD-FACING CHILD RESTRAINT INSTALLATION USING THE SEAT BELTS

⚠ WARNING

The three-point seat belt with Automatic Locking Retractor (ALR) must be used when installing a child restraint. Failure to use the ALR mode will result in the child restraint not being properly secured. The restraint could tip over or be loose and cause injury to a child in a sudden stop or collision. Also, it can change the operation of the front passenger air bag. See "Front passenger air bag and status light" later in this section.



Forward-facing (front passenger seat) – step 1

Refer to all Warnings and Cautions in the "Child safety" and "Child restraints" sections before installing a child restraint.

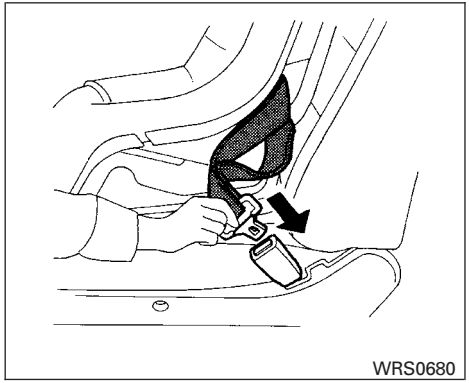
Follow these steps to install a forward-facing child restraint using the vehicle seat belt in the rear seats or in the front passenger seat:

1. **If you must install a child restraint in the front seat, it should be placed in a forward-facing direction only. Move the seat to the rearmost position. Child restraints for infants must be used in the rear-facing direction and, therefore, must not be used in the front seat.**
2. Position the child restraint on the seat. Always follow the child restraint manufacturer's instructions.

   The back of the child restraint should be secured against the vehicle seatback.

   If necessary, adjust or remove the head restraint to obtain the correct child restraint fit. If the head restraint is removed, store it in a secure place. **Be sure to reinstall the head restraint when the child restraint is removed.** See "Head restraints" in this section for head restraint adjustment, removal and installation information.

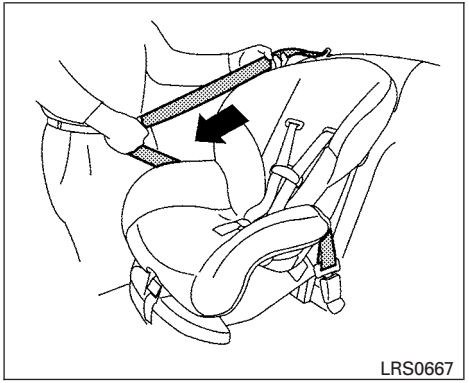
   If the seating position does not have an adjustable head restraint and it is interfering with the proper child restraint fit, try another seating position or a different child restraint.



Forward-facing – step 3

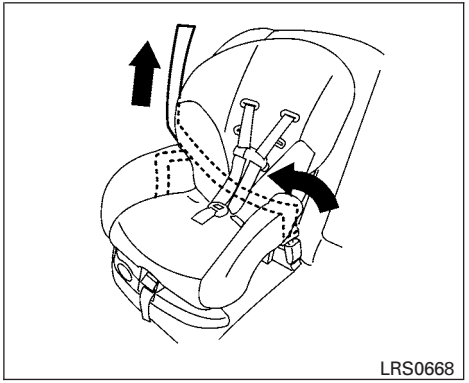
3. Route the seat belt tongue through the child restraint and insert it into the buckle until you hear and feel the latch engage. Be sure to follow the child restraint manufacturer's instructions for belt routing.

   If the child restraint is equipped with a top tether strap, route the top tether strap and secure the tether strap to the tether anchor point (rear seat installation only). See "Installing top tether strap" in this section. Do not install child restraints that require the use of a top tether strap in seating positions that do not have a top tether anchor.



Forward-facing – step 4

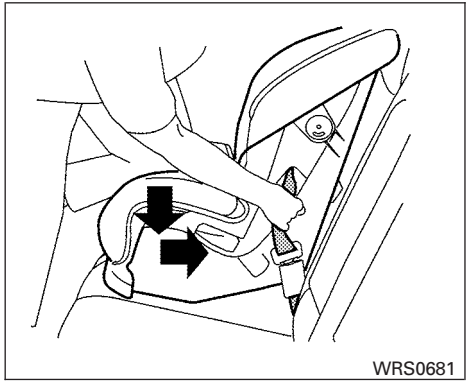
4. Pull the shoulder belt until the belt is fully extended. At this time, the seat belt retractor is in the Automatic Locking Retractor (ALR) mode (child restraint mode). It reverts to Emergency Locking Retractor (ELR) mode when the seat belt is fully retracted.



Forward-facing – step 5

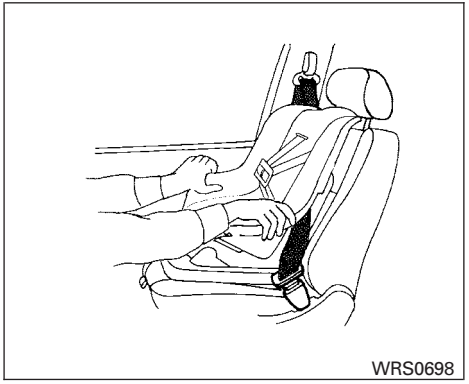
5. Allow the seat belt to retract. Pull up on the shoulder belt to remove any slack in the belt.

Information Provided by:
DEALER CONNECT



Forward-facing – step 6

6. Remove any additional slack from the seat belt; press downward and rearward firmly in the center of the child restraint with your knee to compress the vehicle seat cushion and seatback while pulling up on the seat belt.
7. Tighten the tether strap according to the manufacturer's instructions to remove any slack.



Forward-facing – step 8

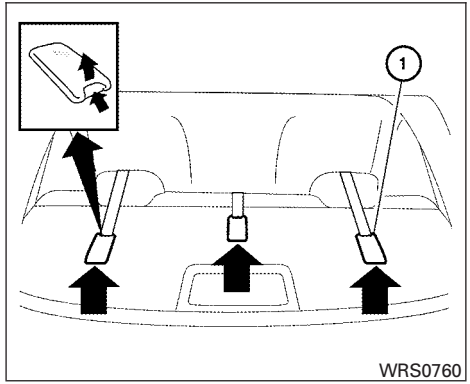
8. After attaching the child restraint, test it before you place the child in it. Push it from side to side while holding the child restraint near the seat belt path. The child restraint should not move more than 1 inch (25 mm), from side to side. Try to tug it forward and check to see if the belt holds the restraint in place. If the restraint is not secure, tighten the seat belt as necessary, or put the restraint in another seat and test it again. You may need to try a different child restraint. Not all child restraints fit in all types of vehicles.
9. Check to make sure the child restraint is properly secured prior to each use. If the seat belt is not locked, repeat steps 2 through 8.

Information Provided by:

Forward-facing – step 10

10. If the child restraint is installed in the front passenger seat, place the ignition switch in the ON position. The front passenger air bag status light should illuminate. If this light is not illuminated, see ″Front passenger air bag and status light″ in this section. **Move the child restraint to another seating position.** Have the system checked by a NISSAN dealer.

After the child restraint is removed and the seat belt is fully retracted, the ALR mode (child restraint mode) is canceled.



INSTALLING TOP TETHER STRAP

First, secure the child restraint with the LATCH lower anchors (rear outboard seat positions only) or the seat belt, as applicable.

1. Flip up the anchor cover ① from the anchor point which is located directly behind the child seat.
2. If necessary, raise or remove the head restraint to position the top tether strap over the top of the seatback. If the head restraint is removed, store it in a secure place. Be sure to reinstall the head restraint when the child restraint is removed. **See “Head restraints” in this section for head restraint adjustment, removal and installation information.**
3. Secure the tether strap to the tether anchor point on the rear parcel shelf.
4. Refer to the appropriate child restraint installation procedure steps in this section before tightening the tether strap.

If you have any questions when installing a top tether strap, consult your NISSAN dealer for details.

BOOSTER SEATS

Precautions on booster seats

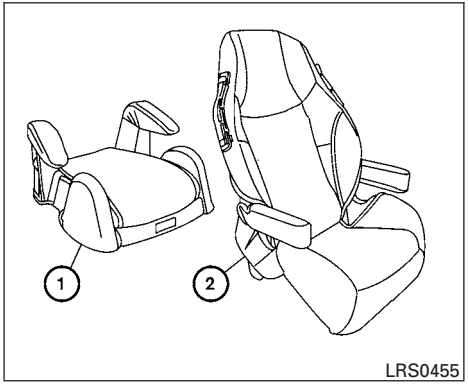
⚠ WARNING

If a booster seat and seat belt are not used properly, the risk of a child being injured in a sudden stop or collision greatly increases:

- **Make sure the shoulder portion of the belt is away from the child’s face and neck and the lap portion of the belt does not cross the stomach.**
- **Make sure the shoulder belt is not behind the child or under the child’s arm.**

Information Provided by: DEALER PROCESS

– **A booster seat must only be installed in a seating position that has a lap/shoulder belt.**



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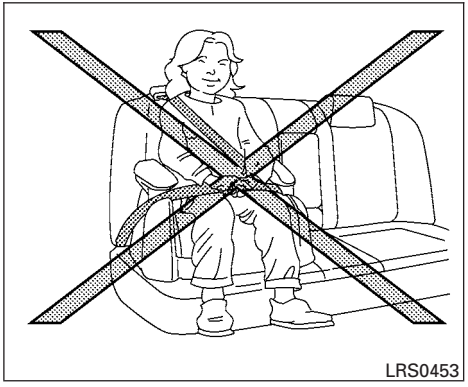
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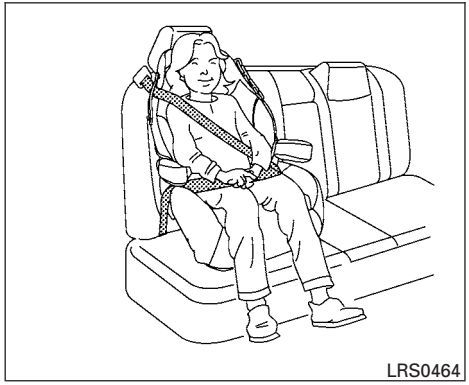

LRS0464

Booster seats of various sizes are offered by several manufacturers. When selecting any booster seat, keep the following points in mind:

- Choose only a booster seat with a label certifying that it complies with Federal Motor Vehicle Safety Standard 213 or Canadian Motor Vehicle Safety Standard 213.
- Check the booster seat in your vehicle to be sure it is compatible with the vehicle's seat and seat belt system.
- Make sure the child's head will be properly supported by the booster seat or vehicle seat. The seatback must be at or above the center of the child's ears. For example, if a low back booster seat ① is chosen, the vehicle seatback must be at or above the center of the child's ears. If the seatback is lower than the center of the child's ears, a high back booster seat ② should be used.
- If the booster seat is compatible with your vehicle, place the child in the booster seat and check the various adjustments to be sure the booster seat is compatible with the child. Always follow all recommended procedures.

All U.S. states and Canadian provinces or territories require that infants and small children be restrained in an approved child restraint at all times while the vehicle is being operated.

The instructions in this section apply to booster seat installation in the rear seats or the front passenger seat.

Booster seat installation

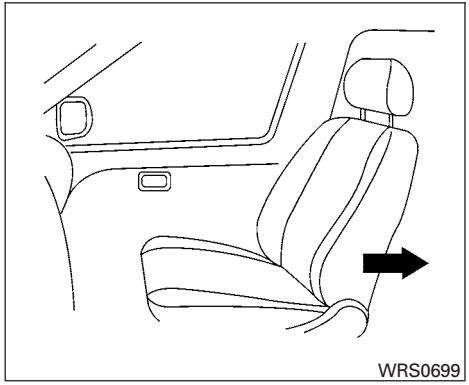
⚠ CAUTION

Do not use the lap/shoulder belt in the Automatic Locking Retractor mode when using a booster seat with the seat belts.

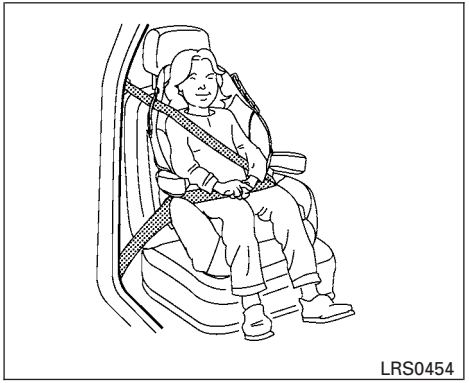
Refer to all Warnings and Cautions in the "Child safety", "Child restraints" and "Booster seats" sections before installing a child restraint.

Follow these steps to install a booster seat in the rear seat or in the front passenger seat:

Information Provided by: DEALER PROCESS



1. **If you must install a booster seat in the front seat, move the seat to the rearmost position.**
2. Position the booster seat on the seat. Only place it in a front-facing direction. Always follow the booster seat manufacturer's instructions.



Front passenger position

3. The booster seat should be positioned on the vehicle seat so that it is stable.

   If necessary, adjust or remove the head restraint to obtain the correct booster seat fit. If the head restraint is removed, store it in a secure place. **Be sure to reinstall the head restraint when the booster seat is removed.** See "Head restraints" in this section for head restraint adjustment, removal and installation information.

   If the seating position does not have an adjustable head restraint and it is interfering with the proper booster seat fit, try another seating position or a different booster seat.
4. Position the lap portion of the seat belt low and snug on the child's hips. Be sure to follow the booster seat manufacturer's instructions for adjusting the seat belt routing.
5. Pull the shoulder belt portion of the seat belt toward the retractor to take up extra slack. Be sure the shoulder belt is positioned across the top, middle portion of the child's shoulder. Be sure to follow the booster seat manufacturer's instructions for adjusting the seat belt routing.
6. Follow the warnings, cautions and instructions for properly fastening a seat belt shown in "Three-point type seat belt with retractor" earlier in this section.

Information Provided by:

7. If the booster seat is installed in the front passenger seat, place the ignition switch in the ON position. The front passenger air bag status light may or may not illuminate, depending on the size of the child and the type of booster seat being used. See “Front passenger air bag and status light” later in this section.

PRECAUTIONS ON SUPPLEMENTAL RESTRAINT SYSTEM

This Supplemental Restraint System (SRS) section contains important information concerning the following systems:

- Driver and passenger supplemental front-impact air bag (NISSAN Advanced Air Bag System)
- Front seat-mounted side-impact supplemental air bag
- Roof-mounted curtain side-impact supplemental air bag
- Seat belt with pretensioner

Supplemental front- impact air bag system: The NISSAN Advanced Air Bag System can help cushion the impact force to the head and chest of the driver and front passenger in certain frontal collisions.

Front seat-mounted side-impact supplemental air bag system: This system can help cushion the impact force to the chest area of the driver and front passenger in certain side-impact collisions. The side air bags are designed to inflate on the side where the vehicle is impacted.

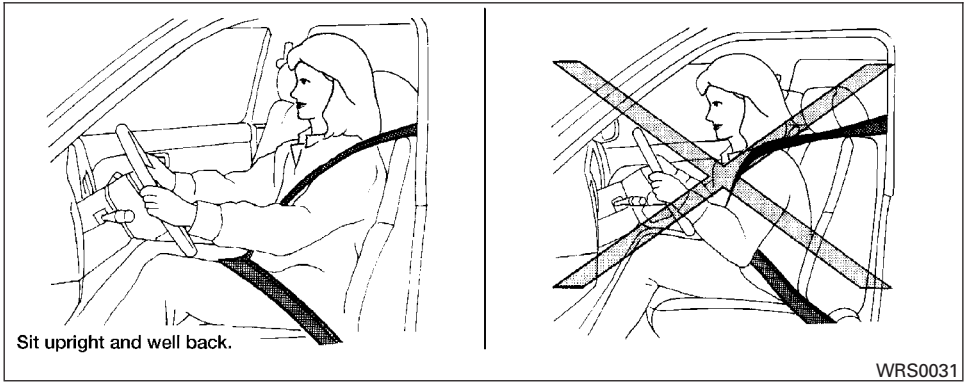
Roof-mounted curtain side-impact supplemental air bag system: This system can help cushion the impact force to the head of occupants in front and rear outboard seating positions in certain side-impact collisions. The curtain air bags are designed to inflate on the side where the vehicle is impacted.

These supplemental restraint systems are designed to **supplement** the crash protection provided by the driver and front passenger seat belts and are **not a substitute** for them. Seat belts should always be correctly worn and the occupant seated a suitable distance away from the steering wheel, instrument panel and door finishers. (See “Seat belts” earlier in this section for instructions and precautions on seat belt usage.)

The supplemental air bags operate only when the ignition switch is placed in the ON or START position.

After placing the ignition switch in the ON position, the supplemental air bag warning light illuminates. The supplemental air bag warning light will turn off after about 7 seconds if the system is operational.

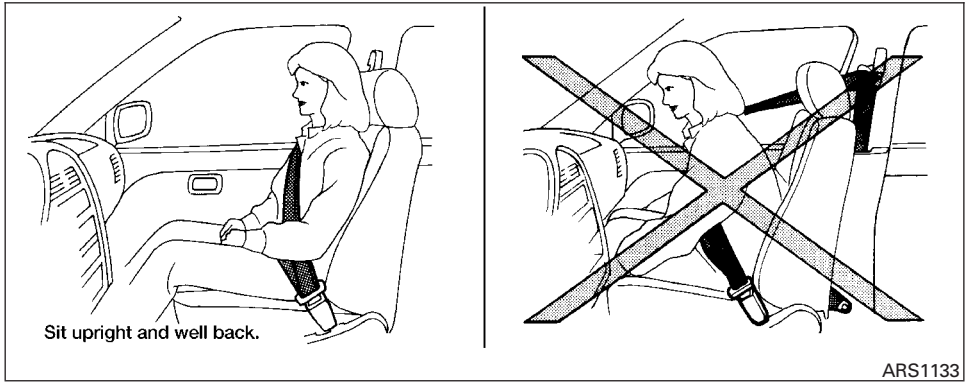
Information Provided by:
DEALER PROCESS

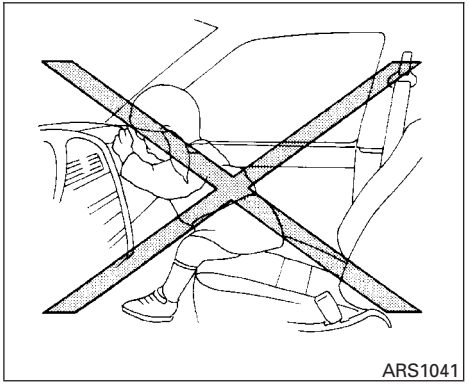


⚠ WARNING

- **The front air bags ordinarily will not inflate in the event of a side impact, rear impact, rollover, or lower severity frontal collision. Always wear your seat belts to help reduce the risk or severity of injury in various kinds of accidents.**
- **The front passenger air bag will not inflate if the passenger air bag status light is lit or if the front passenger seat is unoccupied. See "Front passenger air bag and status light" later in this section.**
- **The seat belts and the front air bags are most effective when you are sitting well back and upright in the seat. The front air bags inflate with great force. Even with the NISSAN Advanced Air Bag System, if you are unrestrained, leaning forward, sitting sideways or out of position in any way, you are at greater risk of injury or death in a crash. You may also receive serious or fatal injuries from the front air bag if you are up against it when it inflates. Always sit back against the seatback and as far away as practical from the steering wheel or instrument panel. Always use the seat belts.**
- **The driver and front passenger seat belt buckles are equipped with sensors that detect if the seat belts are fastened. The Advanced Air Bag System monitors the severity of a collision and seat belt usage then inflates the air bags as needed. Failure to properly wear seat belts can increase the risk or severity of injury in an accident.**
- **The front passenger seat is equipped with an Occupant Classification Sensor (weight sensor) that turns the front passenger air bag OFF under some conditions. This sensor is only used in this seat. Failure to be properly seated and wearing the seat belt can increase the risk or severity of injury in an accident. See "Front passenger air bag and status light" later in this section.**
- **Keep hands on the outside of the steering wheel. Placing them inside the steering wheel rim could increase the risk that they are injured when the front air bag inflates.**

Information Provided by:
DEALER

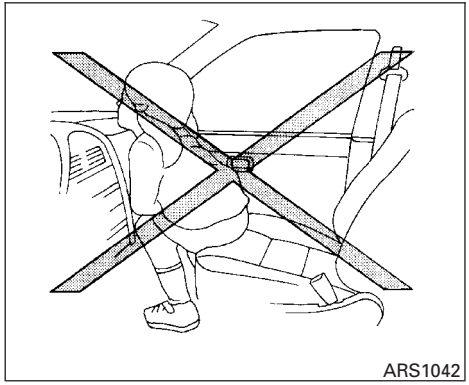




⚠WARNING

- **Never let children ride unrestrained or extend their hands or face out of the window. Do not attempt to hold them in your lap or arms. Some examples of dangerous riding positions are shown in the illustrations.**

Information Provided by:
DEALER PROCESS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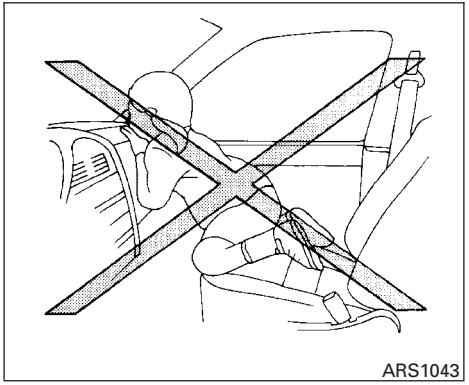
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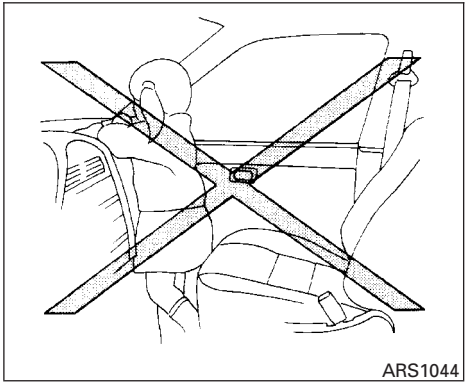
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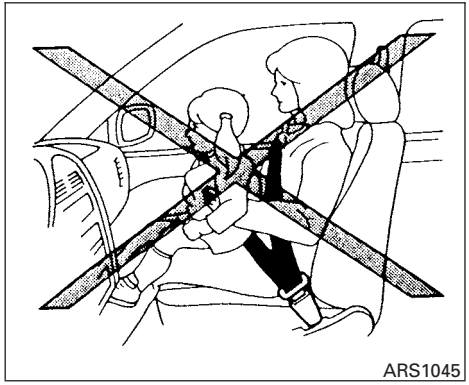
DEALER



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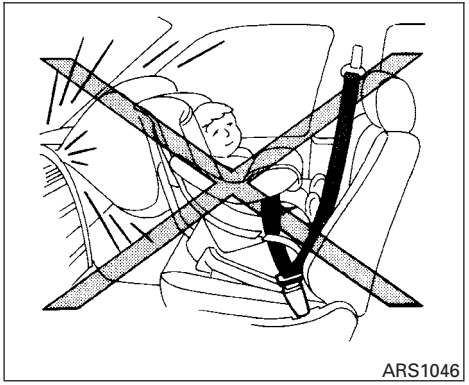

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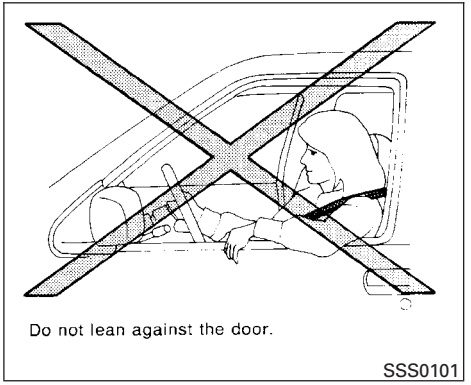


Do not lean against the door.

SSS0101

⚠ WARNING

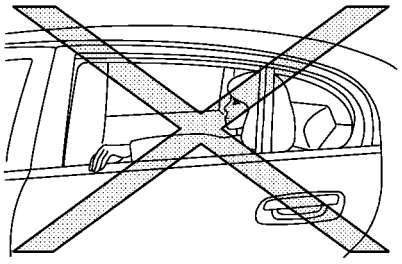
- **Children may be severely injured or killed when the front air bags, side air bags or curtain air bags inflate if they are not properly restrained. Pre-teens and children should be properly restrained in the rear seat, if possible.**
- **Even with the NISSAN Advanced Air Bag System, never install a rear-facing child restraint in the front seat. An inflating front air bag could seriously injure or kill your child. See “Child restraints” earlier in this section for details.**

⚠ WARNING

Front seat-mounted side-impact supplemental air bags and roof-mounted curtain side-impact supplemental air bags:

- **The side air bags and curtain air bags ordinarily will not inflate in the event of a frontal impact, rear impact, rollover or lower severity side collision. Always wear your seat belts to help reduce the risk or severity of injury in various kinds of accidents.**

Information Provided by:
DEALER PROCESS

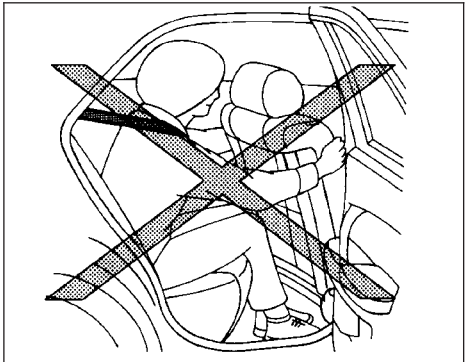


Do not lean against the door.

SSS0188

⚠WARNING

- **The seat belts, the side air bags and curtain air bags are most effective when you are sitting well back and upright in the seat with both feet on the floor. The side air bag and curtain air bag inflate with great force. Do not allow anyone to place their hand, leg or face near the side air bag on the side of the seatback of the front seat or near the side roof rails. Do not allow anyone sitting in the front seats or rear outboard seats to extend their hand out of the window or lean against the door. Some examples of dangerous riding positions are shown in the previous illustrations.**

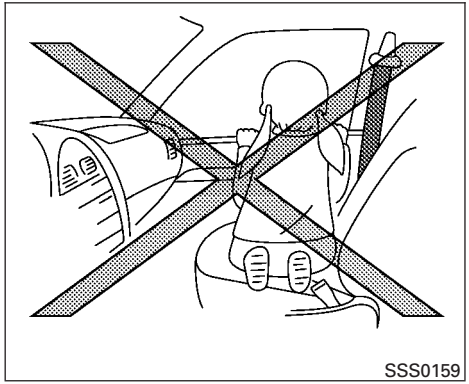


WRS0032

⚠WARNING

- **When sitting in the rear seat, do not hold onto the seatback of the front seat. If the side air bag inflates, you may be seriously injured. Be especially careful with children, who should always be properly restrained. Some examples of dangerous riding positions are shown in the illustrations.**
- **Do not use seat covers on the front seatbacks. They may interfere with side air bag inflation.**

Information Provided by: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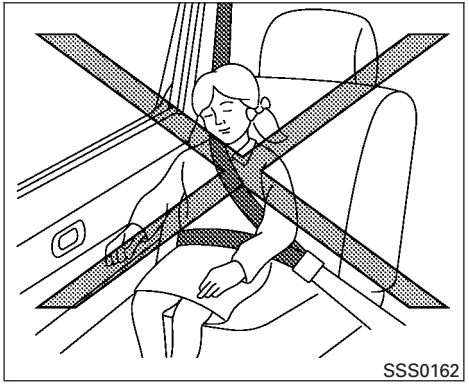
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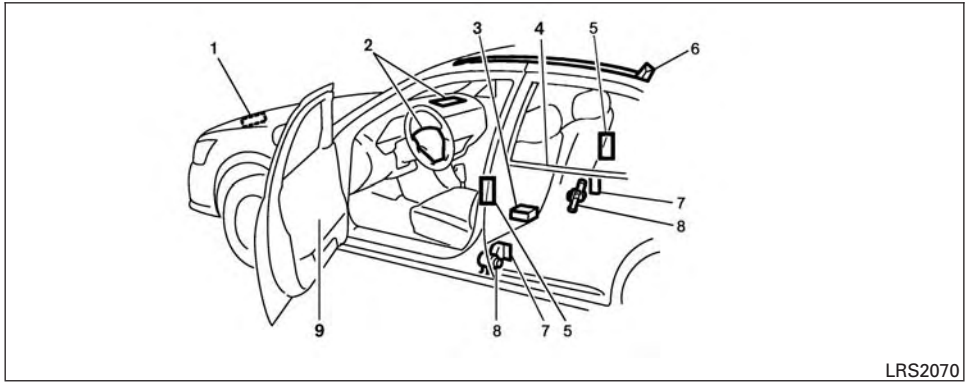
DEALER



LRS2070

1. Crash zone sensor
2. Supplemental front-impact air bag modules
3. Air bag Control Unit (ACU)
4. Occupant classification sensor (weight sensor – located in passenger seat cushion)
5. Front seat-mounted side-impact supplemental air bag modules
6. Roof-mounted curtain side-impact supplemental air bag
7. Side satellite sensor
8. Seat belt with pretensioner
9. Front door satellite sensor (driver's side shown; passenger side similar)

NISSAN Advanced Air Bag System (front seats)

⚠ WARNING

To ensure proper operation of the passenger's advanced air bag system, please observe the following items.

- **Do not allow a passenger in the rear seat to push or pull on the seatback pocket.**
- **Do not place heavy loads heavier than 2.2 lb (1 kg) on the seatback, head restraint or in the seatback pocket.**
- **Do not store luggage behind the seat that can press into the seatback.**
- **Confirm the operating condition with the front passenger air bag status light.**
- **If you notice that the front passenger air bag status light is not operating, please take your vehicle to your NISSAN dealer to check the occupant classification system.**
- **Until you have confirmed with your dealer that your passenger seat occupant classification system is working properly, position the occupants in the rear seating positions.**

This vehicle is equipped with the NISSAN Advanced Air Bag System for the driver and front passenger seats. This system is designed to meet certification requirements under U.S. regulations. It is also permitted in Canada. **However, all of the information, cautions and warnings in this manual still apply and must be followed.**

Information Provided by:
DEALER

The driver supplemental front-impact air bag is located in the center of the steering wheel. The passenger supplemental front-impact air bag is mounted in the dashboard above the glove box. The front air bags are designed to inflate in higher severity frontal collisions, although they may inflate if the forces in another type of collision are similar to those of a higher severity frontal impact. They may not inflate in certain frontal collisions. Vehicle damage (or lack of it) is not always an indication of proper front air bag system operation.

The NISSAN Advanced Air Bag System has dual stage inflators. It also monitors information from the crash zone sensor, the Air bag Control Unit (ACU), seat belt buckle sensors and Occupant Classification Sensor (weight sensor). Inflator operation is based on the severity of a collision and seat belt usage for the driver. For the front passenger, the occupant classification sensors are also monitored. Based on information from the sensors, only one front air bag may inflate in a crash, depending on the crash severity and whether the front occupants are belted or unbelted. Additionally, the front passenger air bag may be automatically turned OFF under some conditions, depending on the weight detected on the passenger seat and how the seat belt is used. If the front passenger air bag is OFF, the passenger air bag status light will be illuminated (if the seat is unoccupied, the light will not be illuminated, but the air bag will be off). See “Front passenger air bag and status light” later in this section for further details. One front air bag inflating does not indicate improper performance of the system.

If you have any questions about your air bag system, please contact NISSAN or your NISSAN dealer. If you are considering modification of your vehicle due to a disability, you may also contact NISSAN. Contact information is contained in the front of this Owner’s Manual.

When a front air bag inflates, a fairly loud noise may be heard, followed by the release of smoke. This smoke is not harmful and does not indicate a fire. Care should be taken to not inhale it, as it may cause irritation and choking. Those with a history of a breathing condition should get fresh air promptly.

Front air bags, along with the use of seat belts, help to cushion the impact force on the face and chest of the front occupants. They can help save lives and reduce serious injuries. However, an inflating front air bag may cause facial abrasions or other injuries. Front air bags do not provide restraint to the lower body.

Even with NISSAN air bags, seat belts should be correctly worn and the driver and passenger seated upright as far as practical away from the steering wheel or instrument panel. The front air bags inflate quickly in order to help protect the front occupants. Because of this, the force of the front air bag inflating can increase the risk of injury if the occupant is too close to, or is against, the front air bag module during inflation.

The front air bags deflate quickly after a collision.

The front air bags operate only when the ignition switch is placed in the ON or START position.

After placing the ignition switch in the ON position, the supplemental air bag warning light illuminates. The supplemental air bag warning light will turn off after about 7 seconds if the system is operational.

Front passenger air bag and status light

⚠WARNING

The front passenger air bag is designed to automatically turn OFF under some conditions. Read this section carefully to learn how it operates. Proper use of the seat, seat belt and child restraints is necessary for most effective protection. Failure to follow all instructions in this manual concerning the use of seats, seat belts and child restraints can increase the risk or severity of injury in an accident.

Status light

The front passenger air bag status light is located near the climate controls. After the ignition switch is placed in the "ON" position, the front passenger air bag status light on the instrument panel illuminates for about 7 seconds and then turns off or remains illuminated depending on the front passenger seat occupied status. The light operates as follows:

- Unoccupied passenger's seat: The is OFF and the front passenger air bag is OFF and will not inflate in a crash.
- Passenger's seat occupied by a small adult, child or child restraint as outlined in this section: The illuminates to indicate that the front passenger air bag is OFF and will not inflate in a crash.
- Occupied passenger seat and the passenger meet the conditions outlined in this section: The light is OFF to indicate that the front passenger air bag is operational.

Front passenger air bag

The front passenger air bag is designed to automatically turn OFF when the vehicle is operated under some conditions as described below in accordance with U.S. regulations. If the front passenger air bag is OFF, it will not inflate in a crash. The driver air bag and other air bags in your vehicle are not part of this system.

The purpose of the regulation is to help reduce the risk of injury or death from an inflating air bag to certain front passenger seat occupants, such as children, by requiring the air bag to be automatically turned OFF. Certain sensors are used to meet the requirements.

The occupant classification sensors (weight sensors) are on the seat cushion frame under the front passenger seat and are designed to detect an occupant and objects on the seat. For example, if a child is in the front passenger seat, the Advanced Air Bag System is designed to turn the passenger air bag OFF in accordance with the regulations. Also, if a child restraint of the type specified in the regulations is on the seat, the occupant classification sensors can detect it and cause the air bag to turn OFF.

The front passenger seat belt sensor is designed to detect if the seat belt is buckled. Based on the weight on the seat detected by the occupant classification sensor and the buckle state, the Advanced Air Bag System determines whether the front passenger air bag should be automatically turned OFF as required by the regulations.

Front passenger seat adult occupants who are properly seated and using the seat belt as outlined in this manual should not cause the passen-

ger air bag to be automatically turned OFF. For small adults it may be turned OFF, however if the occupant takes his/her weight off the seat cushion (for example, by not sitting upright, by sitting on an edge of the seat, or by otherwise being out of position), this could cause the sensor to turn the air bag OFF. Always be sure to be seated and wearing the seat belt properly for the most effective protection by the seat belt and supplemental air bag.

NISSAN recommends that pre-teens and children be properly restrained in a rear seat. NISSAN also recommends that appropriate child restraints and booster seats be properly installed in a rear seat. If this is not possible, the occupant classification sensor is designed to operate as described above to turn the front passenger air bag OFF for specified child restraints as required by the regulations. Failing to properly secure child restraints and to use the ALR mode may allow the restraint to tip or move in an accident or sudden stop. This can also result in the passenger air bag inflating in a crash instead of being OFF. See “Child restraints” earlier in this section for proper use and installation.

If the front passenger seat is not occupied, the passenger air bag is designed not to inflate in a crash. However, heavy objects placed on the seat could result in air bag inflation, because of the object’s weight detected by the occupant classification sensor. Other conditions could also result in air bag inflation, such as if a child is standing on the seat, or if two children are on the seat, contrary to the instructions in this manual. Always be sure that you and all vehicle occupants are seated and restrained properly.

Using the passenger air bag status light, you can monitor when the front passenger air bag is automatically turned OFF with the seat occupied. The light will not illuminate when the front passenger seat is unoccupied.

If an adult occupant is in the seat but the passenger air bag status light is illuminated (indicating that the air bag is OFF), it could be that the person is a small adult, or is not sitting on the seat properly or not using the seat belt properly.

If a child restraint must be used in the front seat, the passenger air bag status light may or may not be illuminated, depending on the size of the child and the type of child restraint being used. If the air bag status light is not illuminated (indicating that the air bag might inflate in a crash), it could be that the child restraint or seat belt is not being used properly. Make sure that the child restraint is installed properly, the seat belt is used properly and the occupant is positioned properly. If the air bag status light is not illuminated, reposition the occupant or child restraint in a rear seat.

If the passenger air bag status light will not illuminate even though you believe that the child restraint, the seat belts and the occupant are properly positioned, the system may be sensing an unoccupied seat (in which case the air bag is OFF). Your NISSAN dealer can check that the system is OFF by using a special tool. However, until you have confirmed with your dealer that your air bag is working properly, reposition the occupant or child restraint in a rear seat.

The NISSAN Advanced Air Bag System and passenger air bag status light will take a few seconds to register a change in the passenger seat status. For example, if a large adult who is sitting in the front passenger seat exits the vehicle, the passenger air bag status light will go from OFF to ON for a few seconds and then to OFF. This is normal system operation and does not indicate a malfunction.

If a malfunction occurs in the front passenger air bag system, the supplemental air bag warning light , located in the meter and gauges area of the instrument panel, will blink. Have the system checked by a NISSAN dealer.

Information Provided by DEALER PROCESS

Other supplemental front-impact air bag precautions

⚠ WARNING

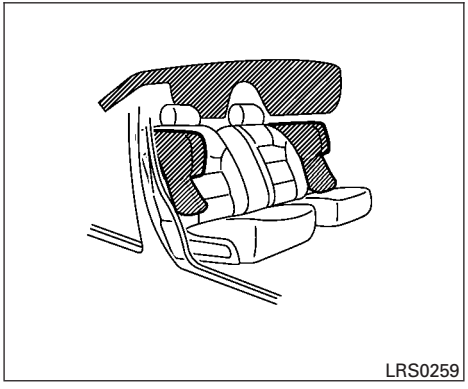
- **Do not place any objects on the steering wheel pad or on the instrument panel. Also, do not place any objects between any occupant and the steering wheel or instrument panel. Such objects may become dangerous projectiles and cause injury if the front air bags inflate.**
- **Do not place objects with sharp edges on the seat. Also, do not place heavy objects on the seat that will leave permanent impressions in the seat. Such objects can damage the seat or occupant classification sensors (weight sensors). This can affect the operation of the air bag system and result in serious personal injury.**
- **Do not use water or acidic cleaners (hot steam cleaners) on the seat. This can damage the seat or occupant classification sensors. This can also affect the operation of the air bag system and result in serious personal injury.**
- **Immediately after inflation, several front air bag system components will be hot. Do not touch them; you may severely burn yourself.**
- **No unauthorized changes should be made to any components or wiring of the supplemental air bag system. This is to prevent accidental inflation of the supplemental air bag or damage to the supplemental air bag system.**
- **Do not make unauthorized changes to your vehicle's electrical system, suspension system or front end structure. This could affect proper operation of the front air bag system.**
- **Tampering with the front air bag system may result in serious personal injury. Tampering includes changes to the steering wheel and the instrument panel assembly by placing material over the steering wheel pad and above the instrument panel or by installing additional trim material around the air bag system.**
- **Removing or modifying the front passenger seat may affect the function of the air bag and result in serious personal injury.**
- **Modifying or tampering with the front passenger seat may result in serious personal injury. For example, do not change the front seats by placing material on the seat cushion or by installing additional trim material, such as seat covers, on the seat that are not specifically designed to assure proper air bag operation. Additionally, do not stow any objects under the front passenger seat or the seat cushion and seatback. Such objects may interfere with the proper operation of the occupant classification sensor (weight sensor).**
- **No unauthorized changes should be made to any components or wiring of the seat belt system. This may affect the front air bag system. Tampering with the seat belt system may result in serious personal injury.**

Information Provided by:

- **Work on and around the front air bag system should be done by a NISSAN dealer. Installation of electrical equipment should also be done by a NISSAN dealer. The Supplemental Restraint System (SRS) wiring harnesses* should not be modified or disconnected. Unauthorized electrical test equipment and probing devices should not be used on the air bag system.**
- **A cracked windshield should be replaced immediately by a qualified repair facility. A cracked windshield could affect the function of the supplemental air bag system.**

***The SRS wiring harness connectors are yellow and orange for easy identification.**

When selling your vehicle, we request that you inform the buyer about the front air bag system and guide the buyer to the appropriate sections in this Owner's Manual.


LRS0259

Front seat-mounted side-impact supplemental air bag and roof-mounted curtain side-impact supplemental air bag systems

The side air bags are located in the outside of the seatback of the front seats. The curtain air bags are located in the side roof rails. These systems are designed to meet voluntary guidelines to help reduce the risk of injury to out-of-position occupants. **However, all of the information, cautions and warnings in this manual still apply and must be followed.** The side air bags and curtain air bags are designed to inflate in higher severity side collisions, although they may inflate if the forces in another type of collision are similar to those of a higher severity side impact. They are designed to inflate on the side where the vehicle is impacted. They may not inflate in certain side collisions.

Vehicle damage (or lack of it) is not always an indication of proper side air bag and curtain air bag operation.

When the side air bags and curtain air bags inflate, a fairly loud noise may be heard, followed by release of smoke. This smoke is not harmful and does not indicate a fire. Care should be taken not to inhale it, as it may cause irritation and choking. Those with a history of a breathing condition should get fresh air promptly.

Side air bags, along with the use of seat belts, help to cushion the impact force on the chest of the front occupants. Curtain air bags help to cushion the impact force to the head of occupants in the front and rear outboard seating positions. They can help save lives and reduce serious injuries. However, an inflating side air bag and curtain air bag may cause abrasions or other injuries. Side air bags and curtain air bags do not provide restraint to the lower body.

The seat belts should be correctly worn and the driver and passenger seated upright as far as practical away from the side air bag. Rear seat passengers should be seated as far away as

practical from the door finishers and side roof rails. The side air bags and curtain air bags inflate quickly in order to help protect the front and rear outboard occupants. Because of this, the force of the side air bag and curtain air bag inflating can increase the risk of injury if the occupant is too close to, or is against, these air bag modules during inflation. The side air bags and curtain air bags will deflate quickly after the collision is over.

The side air bags and curtain air bags operate only when the ignition switch is in the ON position.

After placing the ignition switch in the ON position, the supplemental air bag warning light illuminates. The supplemental air bag warning light will turn off after about 7 seconds if the system is operational.

⚠ WARNING

- **Do not place any objects near the seatback of the front seats. Also, do not place any objects (an umbrella, bag, etc.) between the front door finisher and the front seat. Such objects may become dangerous projectiles and cause injury if a side air bag inflates.**
- **Right after inflation, several side air bag and curtain air bag system components will be hot. Do not touch them; you may severely burn yourself.**
- **No unauthorized changes should be made to any components or wiring of the side air bag and curtain air bag systems. This is to prevent damage to or accidental inflation of the side air bag and curtain air bag or damage to the side air bag and curtain air bag systems.**
- **Do not make unauthorized changes to your vehicle's electrical system, suspension system or side panel. This could affect proper operation of the side air bag and curtain air bag systems.**
- **Tampering with the side air bag system may result in serious personal injury. For example, do not change the front seats by placing material near the seatbacks or by installing additional trim material, such as seat covers, around the side air bag.**
- **Work around and on the side air bag and curtain air bag systems should be done by a NISSAN dealer. Installation of electrical equipment should also be done by a NISSAN dealer. The SRS wiring harnesses* should not be modified or disconnected. Unauthorized electrical test equipment and probing devices should not be used on the side air bag or curtain air bag systems.**

*** The SRS wiring harness connectors are yellow and orange for easy identification.**

When selling your vehicle, we request that you inform the buyer about the side air bag and curtain air bag systems and guide the buyer to the appropriate sections in this Owner's Manual.

Seat belts with pretensioners (front seats)

⚠ WARNING

- **The pretensioners cannot be reused after activation. They must be replaced together with the retractor and buckle as a unit.**

Information Provided by:
DEALER

- **If the vehicle becomes involved in a collision but a pretensioner is not activated, be sure to have the pretensioner system checked and, if necessary, replaced by your NISSAN dealer.**
- **No unauthorized changes should be made to any components or wiring of the pretensioner system. This is to prevent damage to or accidental activation of the pretensioners. Tampering with the pretensioner system may result in serious personal injury.**
- **Work around and on the pretensioner system should be done by a NISSAN dealer. Installation of electrical equipment should also be done by a NISSAN dealer. Unauthorized electrical test equipment and probing devices should not be used on the pretensioner system.**
- **If you need to dispose of the pretensioner or scrap the vehicle, contact a NISSAN dealer. Incorrect disposal procedures could cause personal injury.**

The pretensioner system may activate with the supplemental air bag system in certain types of collisions. Working with the seat belt retractor, the pretensioner helps tighten the seat belt when the vehicle becomes involved in certain types of collisions, helping to restrain front seat occupants.

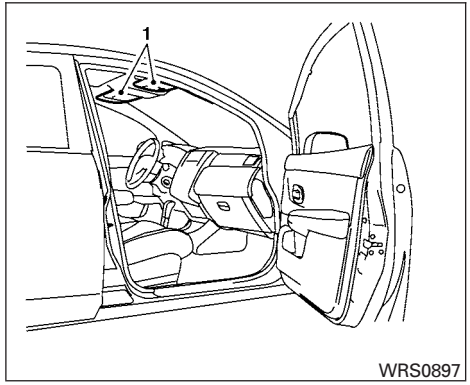
The pretensioner is encased with the seat belt retractor. These seat belts are used the same way as conventional seat belts.

When a pretensioner activates, smoke is released and a loud noise may be heard. This smoke is not harmful and does not indicate a fire. Care should be taken not to inhale it, as it may cause irritation and choking. Those with a history of a breathing condition should get fresh air promptly.

After pretensioner activation, load limiters allow the seat belt to release webbing (if necessary) to reduce forces against the chest.

The supplemental air bag warning light is used to indicate malfunctions in the pretensioner system. (See "SUPPLEMENTAL AIR BAG WARNING LIGHT" in this section for more details.) If the operation of the supplemental air bag warning light indicates there is a malfunction, have the system checked by a NISSAN dealer.

When selling your vehicle, we request that you inform the buyer about the pretensioner system and guide the buyer to the appropriate sections in this Owner's Manual.



1. SRS Air Bag Warning Labels (located on the sun visors)

SUPPLEMENTAL AIR BAG WARNING LABELS

Warning labels about the supplemental front-impact air bag system are placed in the vehicle as shown in the illustration.

Information Provided by:
DEALER PROCESS

LRS0100

SUPPLEMENTAL AIR BAG WARNING LIGHT

The supplemental air bag warning light, displaying in the instrument panel, monitors the circuits for the air bag systems, pretensioners and all related wiring.

When the ignition switch is placed in the ON or START position, the supplemental air bag warning light illuminates for about 7 seconds and then turns off. This means the system is operational.

If any of the following conditions occur, the front air bag, side air bag, curtain air bag and pretensioner systems need servicing:

- The supplemental air bag warning light remains on after approximately 7 seconds.
- The supplemental air bag warning light flashes intermittently.
- The supplemental air bag warning light does not come on at all.

Under these conditions, the front air bag, side air bag, curtain air bag or pretensioner systems may not operate properly. They must be checked and repaired. Take your vehicle to the nearest NISSAN dealer.

⚠ WARNING

If the supplemental air bag warning light is on, it could mean that the front air bag, side air bag, curtain air bag and/or pretensioner systems will not operate in an accident. To help avoid injury to yourself or others, have your vehicle checked by a NISSAN dealer as soon as possible.

Repair and replacement procedure

The front air bags, side air bags, curtain air bags and pretensioners are designed to inflate on a one-time-only basis. As a reminder, unless it is damaged, the supplemental air bag warning light remains illuminated after inflation has occurred. Repair and replacement of these supplemental air bag systems should be done only by a NISSAN dealer.

When maintenance work is required on the vehicle, the front air bags, side air bags, curtain air bags, pretensioners and related parts should be pointed out to the person performing the maintenance. The ignition switch should always be placed in the LOCK position when working under the hood or inside the vehicle.

⚠ WARNING

- **Once a front air bag, side air bag, or curtain air bag has inflated, the air bag module will not function again and must be replaced. Additionally, the activated pretensioner must also be replaced. The air bag module and pretensioner should be replaced by a NISSAN dealer. The air bag module and pretensioner cannot be repaired.**

Information Provided by:
DEALER

- **The front air bag, side air bag, curtain air bag systems and the pretensioner system should be inspected by a NISSAN dealer if there is any damage to the front end or side portion of the vehicle.**
- **If you need to dispose of the supplemental air bag or pretensioner systems or scrap the vehicle, contact a NISSAN dealer. Incorrect disposal procedures could cause personal injury.**

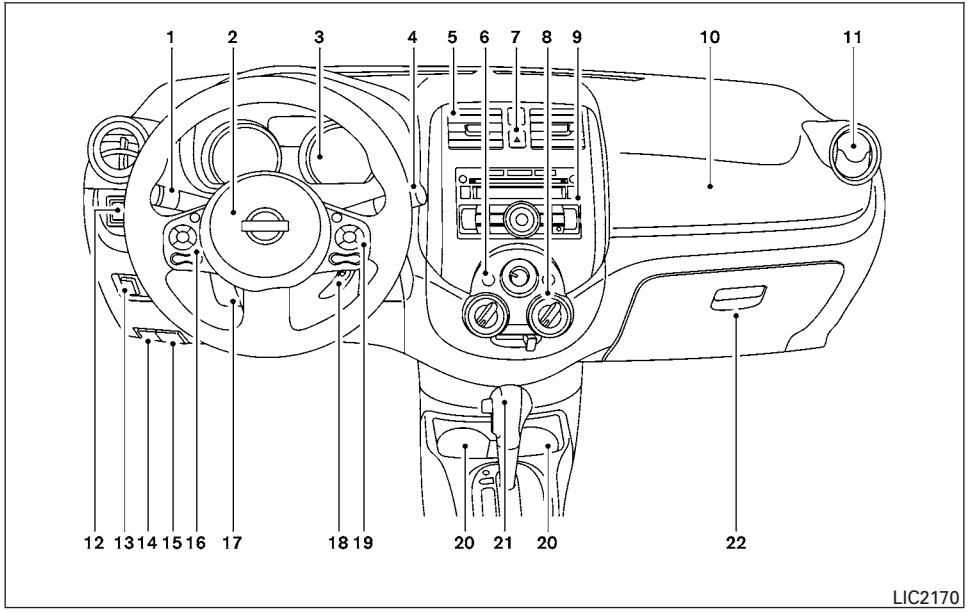
Information Provided by:
DEALER PROCESS

2 Instruments and controls

Instrument panel. 2-2
Meters and gauges 2-3
Speedometer and odometer 2-5
Tachometer (if so equipped) 2-7
Fuel gauge 2-8
Trip computer 2-9
Service interval reminder (if so equipped) 2-9
Warning/indicator lights and audible reminders 2-11
Checking bulbs 2-12
Warning lights 2-12
Indicator lights 2-16
Audible reminders 2-19
Security system 2-20
NISSAN vehicle immobilizer system (if so equipped) 2-20
Windshield wiper and washer switch 2-21
Switch operation 2-21
Rear window and outside mirror (if so equipped) defroster switch 2-22
Headlight and turn signal switch. 2-22
Headlight control switch. 2-22
Daytime running light system (Canada only) 2-23
Instrument brightness control 2-24
Turn signal switch 2-24
Fog light switch (if so equipped) 2-25
Horn 2-25
Vehicle Dynamic Control (VDC) off switch. 2-25
Power outlet 2-26
Storage 2-27
Map pockets. 2-27
Seatback pocket (if so equipped) 2-27
Storage trays 2-27
Cup holders 2-28
Glove box 2-29
Windows 2-29
Power windows (if so equipped) 2-29
Manual windows (if so equipped). 2-31
Interior light 2-31
Map light (if so equipped) 2-32
Trunk light 2-33

Information Provided by:
DEALER E-PROCESS

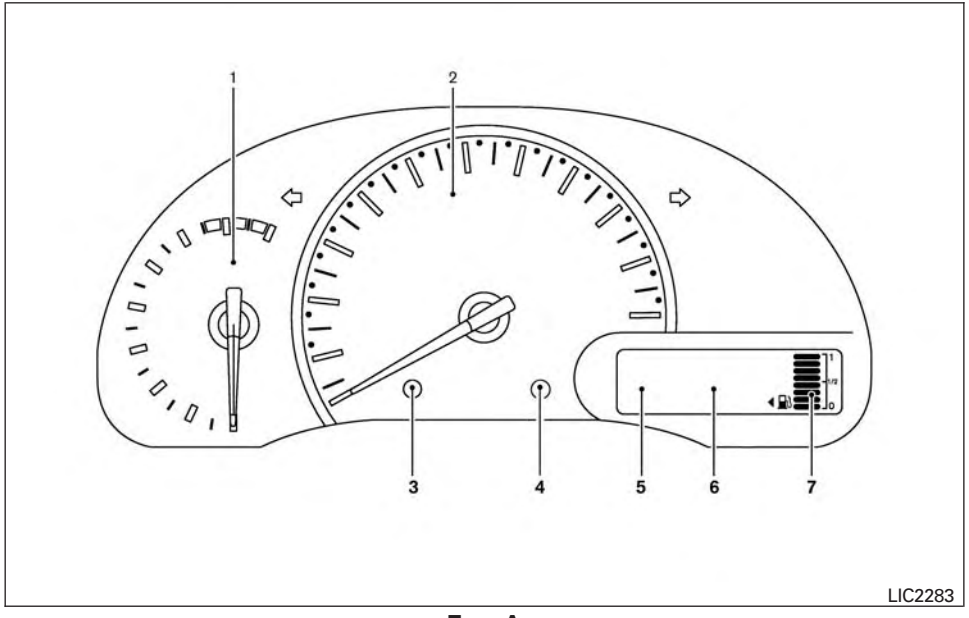
INSTRUMENT PANEL



1. Headlight/turn signal switch (P. 2-22)
2. Driver's supplemental air bag /horn (P. 1-36, 2-25)
3. Meters and gauges (P. 2-3)
4. Windshield wiper/washer switch (P. 2-21)
5. Center vents (P. 4-13)
6. Rear window and outside mirror (if so equipped) defroster switch (P. 2-22)
7. Hazard warning flasher switch (P. 6-2)
8. Climate controls (P. 4-14)
9. Audio system (P. 4-31, 4-34, 4-38)
10. Passenger's supplemental air bag (P. 1-36)
11. Side vents (P. 4-13)
12. Electronic outside rearview mirror control switch (P.3-32)
13. Vehicle Dynamic Control (VDC) off switch (P. 2-25)
14. Fuel-filler lid release lever (P. 3-27)
15. Hood release lever (P. 3-24)
16. Audio control switches (if so equipped) (P.4-52)
17. Tilt steering (P. 3-30)
18. Ignition switch/Push button ignition switch (if so equipped) (P. 5-7, P. 5-9)
19. Cruise control (if so equipped) (P.5-20)
20. Cup holders (P. 2-28)
21. Shift selector (P. 5-15)
22. Glove box (P. 2-26)

See the page number indicated in parentheses for operating details.

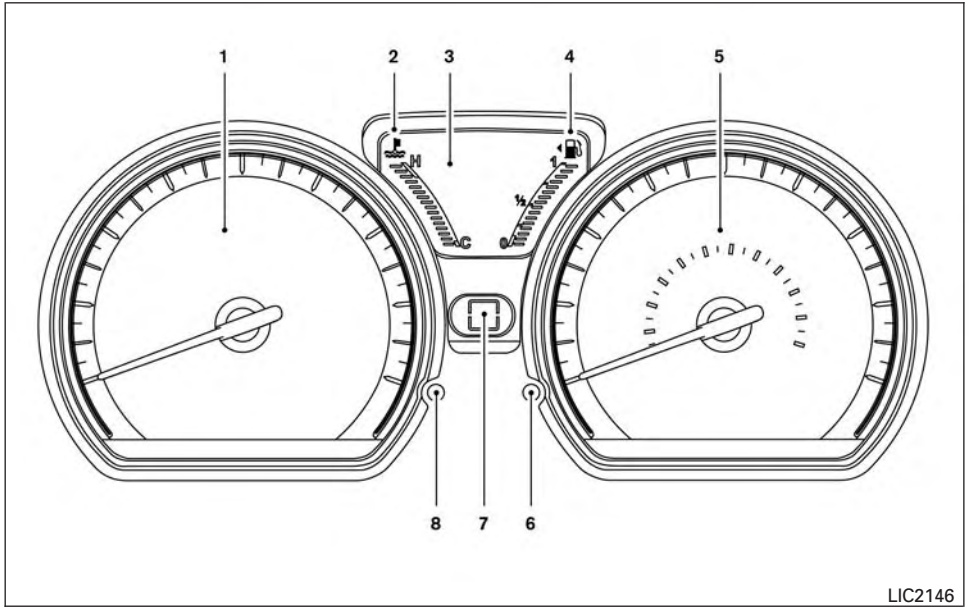
DEALER E-PROCESS



Type A

1. Tachometer (if so equipped)
2. Speedometer
3. Trip odometer reset switch/trip computer mode
4. Instrument brightness control
5. Continuously Variable Transmission (CVT) / AT Automatic Transmission position indicator (CVT / A/T models only)
6. Odometer/twin trip odometer/trip computer
7. Fuel gauge

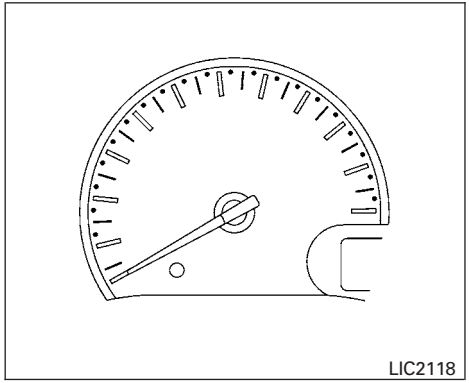
Information Provided by:
DEALER E-PROCESS



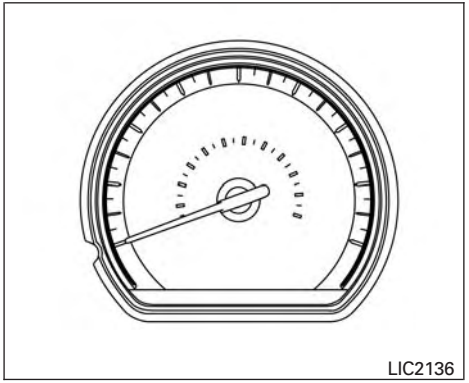
Type B

1. Tachometer
2. Temperature gauge
3. Odometer/twin trip odometer/trip computer
4. Fuel gauge
5. Speedometer
6. Trip odometer reset switch/trip computer mode
7. Continuously Variable Transmission (CVT) / Manual Transmission shift indicatorposition indicator
8. Instrument brightness control

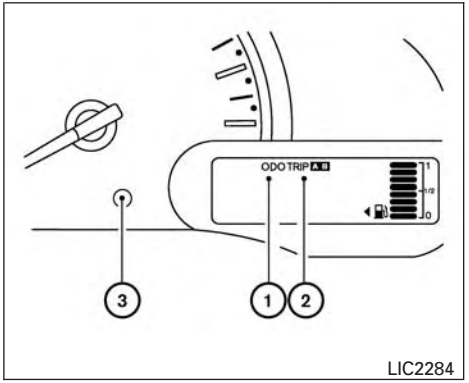
Information Provided by:
DEALER E-PROCESS



Type A



Type B



Type A

SPEEDOMETER AND ODOMETER

Speedometer

The speedometer indicates the vehicle speed.

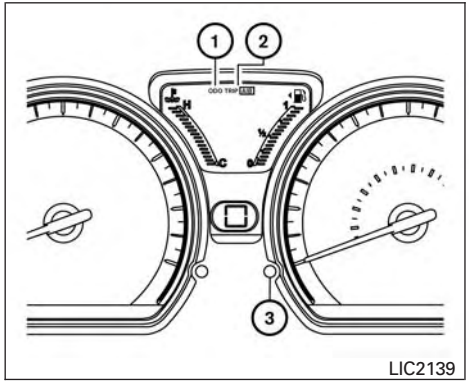
Odometer/Twin trip odometer

The odometer/twin trip odometer is displayed when the ignition switch is placed in the ON position.

The odometer ① records the total distance the vehicle has been driven.

The twin trip odometer ② records the distance of individual trips.

Information Provided by:
DEALER E-PROCESS



Type B

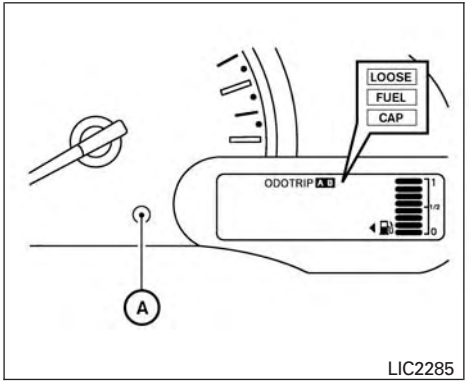
Changing the display:

Press the change button ③ to change the display as follows:

Odometer (ODO) → Trip **A** → Trip **B** → Instant fuel consumption → Average fuel consumption → DTE (cruising range) → Odometer (ODO)

Resetting the trip odometer:

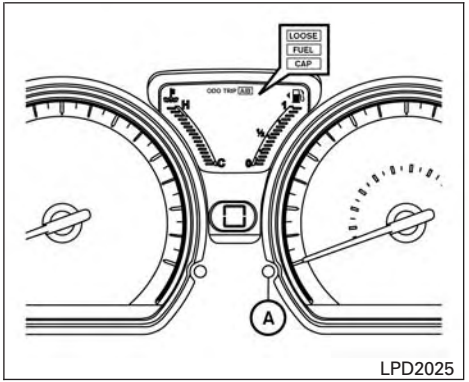
Press the change button ③ for more than 1 second to reset the currently displayed trip odometer to zero.



Type A

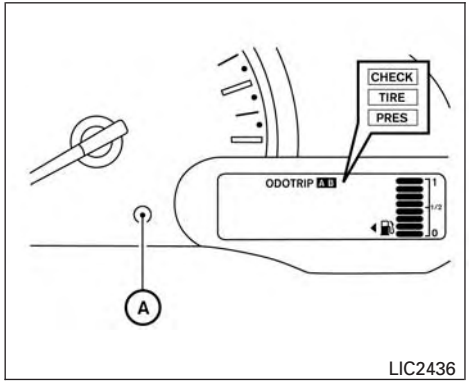
Loose fuel cap warning message

Push the reset button Ⓐ for more than 1 second to reset the LOOSE FUEL CAP warning message after the fuel cap has been tightened. For additional information see “Fuel-filler cap” in the “Pre-driving checks and adjustments” section of this manual.

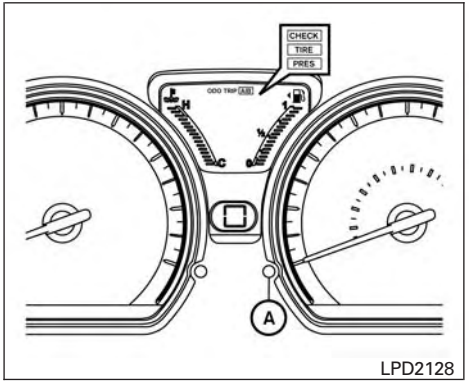


Type B

Information Provided by:
DEALER E-PROCESS



Type A

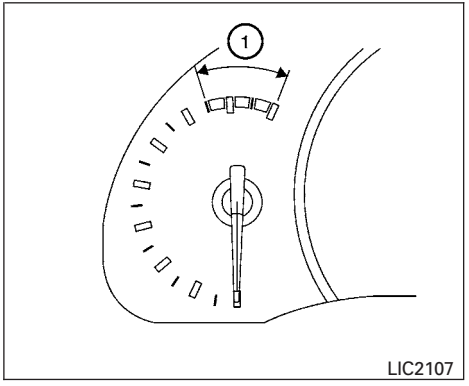


Type B

Check tire pressure warning message

The CHECK TIRE PRES warning message is displayed when the low tire pressure warning light is illuminated and low tire pressure is detected. Check and adjust the tire pressure to the recommended COLD tire pressure shown on the Tire and Loading Information label. The CHECK TIRE PRES warning message turns off when the low tire pressure warning light turns off.

The low tire pressure warning light remains illuminated until the tires are inflated to the recommended COLD tire pressure. The CHECK TIRE PRES warning message is displayed each time the ignition switch is placed in the ON position as long as the low tire pressure warning light remains illuminated. For more information see “Low tire pressure warning light” in the “Instruments and controls” section, “Tire Pressure Monitoring System (TPMS)” in the “Starting and driving” section, and “Wheels and tires” in the “Maintenance and do-it-yourself” section of this Owner’s Manual.



Type A

TACHOMETER (if so equipped)

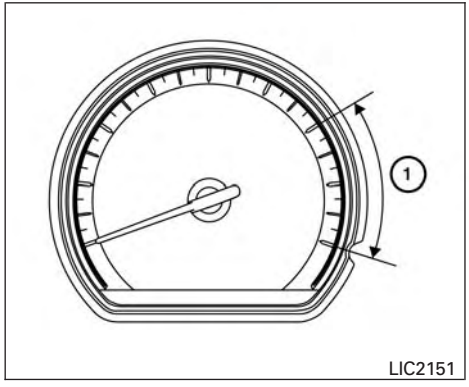
The tachometer indicates engine speed in revolutions per minute (rpm).

Do not rev the engine into the red zone ①.

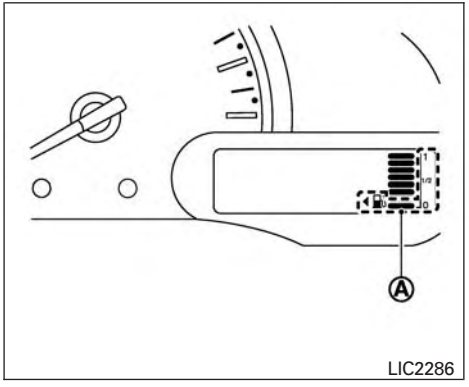
⚠ CAUTION

When engine speed approaches the red zone, shift to a higher gear or reduce engine speed. Operating the engine in the red zone may cause serious engine damage.

Information Provided by:
DEALER E-PROCESS



Type B



Type A

FUEL GAUGE

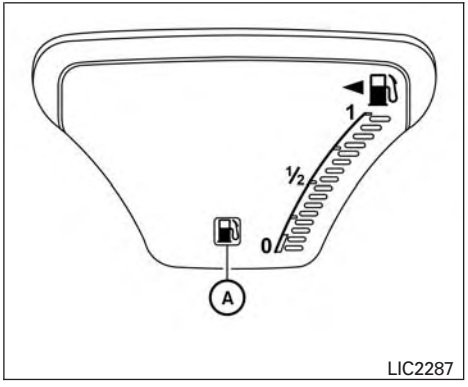
The gauge indicates Ⓐ the **approximate**fuel level in the tank when the ignition switch is placed in the ON position.

The gauge may move slightly during braking, turning, acceleration, or going up or down hills.

Type A: The fuel level segments will blink when the amount of fuel in the tank is getting low.

Type B: The low fuel warning light will turn on when the amount of fuel in the tank is getting low.

Refill the fuel tank before the gauge registers E (Empty).



Type B

The ◀⛽ indicates that the fuel-filler door is located on the driver's side of the vehicle.

⚠CAUTION

- **If the vehicle runs out of fuel, the check engine light may come on. Refuel as soon as possible. After a few driving trips, the light should turn off. If the light remains on after a few driving trips, have the vehicle inspected by a NISSAN dealer.**
- **For additional information, see "Malfunction Indicator Light (MIL)" later in this section.**

Information Provided by:
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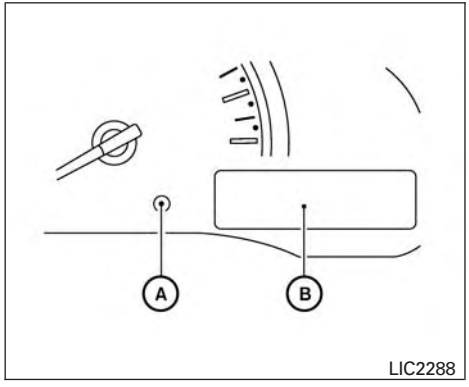
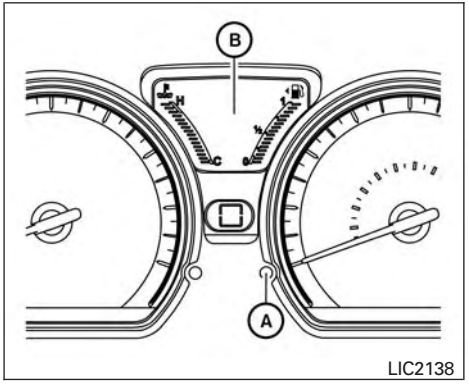


Type A



Type B

TRIP COMPUTER

When the ignition switch is placed in the ON position, modes of the trip computer can be selected by pushing the trip computer change button Ⓐ on the instrument panel located near the speedometer. The following modes can be selected in the display Ⓑ:

- Instant fuel consumption
- Average fuel consumption
- Distance to empty

Instant fuel economy

The instant fuel economy mode shows the instant fuel consumption. The display updates instantly when driving.

Average fuel consumption

The average fuel consumption mode shows the average fuel consumption since the last reset. Resetting is done by pushing the trip computer change button Ⓐ for more than approximately 1 second.

Distance to empty

The distance to empty mode provides you with an estimation of the distance that can be driven before refueling. The range is constantly being calculated, based on the amount of fuel in the fuel tank and the actual fuel consumption.

The distance to empty includes a low range warning feature: when the fuel level is low, the distance to empty is automatically selected and the digits blink in order to draw the driver's attention. Press the trip computer change button Ⓐ if you wish to return to the mode that was selected before the warning occurred.

When the fuel level drops even lower, the distance to empty will display (----).

Trip computer reset

Pushing the change button for more than 3 seconds will reset all modes except Trip A and distance to empty (dte).

SERVICE INTERVAL REMINDER (if so equipped)

When the ignition switch is placed in the ON position, a wrench symbol and the distance to oil change information will illuminate on the display for approximately 5 seconds. The wrench symbol and distance to oil change switch to oil display

Information Provided by:
DEALER E-PROCESS

status. Then the oil display status switches to odometer and twin trip odometer/trip computer information mode that was displayed before the ignition switch was placed in the ACC, OFF or LOCK position.

The oil level display status provides specific information regarding your approximate engine oil level.

If the oil level is sufficient, “Oil Good” is displayed for approximately 10 seconds. If the oil level is low, “Oil Lo” blinks for approximately 30 seconds in order to draw your attention to necessary action.

Quickly push and release the trip computer change button Ⓐ on the instrument panel located near the speedometer Ⓑ during the “Oil Good” or “Oil Lo” mode to display an approximate oil level indication.

In case of low engine oil level, see “Engine oil” in the “Maintenance and do-it-yourself” section for the proper engine oil refilling procedure.

Oil change schedule set up

It is possible to adjust the interval distance to oil change by pushing the trip computer change button Ⓐ on the instrument panel located near the speedometer Ⓑ for 3 seconds while the wrench symbol and distance to oil change are displayed. The symbol and distance display will start flashing and the display shows the current interval. Push the switch to increase the interval distance. Each step increases the interval distance by 500 miles (1,000 km). The interval distance can be set up to 18,000 miles (30,000 km) after which the display returns to zero.

If no further action is made, the display returns to oil display status indication and the new interval is set.

If the interval distance is set to 0, the display will skip the distance to oil change information and wrench symbol display mode and will directly display the oil display status (“Oil Good” or “Oil Lo”). In order to return to the distance to oil change information and wrench symbol display mode, push the trip computer change button Ⓐ on the instrument panel located near the speedometer Ⓑ for approximately 3 seconds after the ignition switch has been turned to the ON position, and adjust the distance to oil change schedule as previously described.

See the Warranty Information & Maintenance Booklet for the appropriate interval distance to oil change.

⚠ CAUTION

- **The oil level should be checked regularly. Operating with insufficient amount of oil level can damage the engine and such damage is not covered by the warranty.**
- **NISSAN recommends checking the oil level every 3,000 miles (5,000 km).**

Information Provided by: DEALER E-PROCESS

WARNING/INDICATOR LIGHTS AND AUDIBLE REMINDERS

- ABS or Anti-lock Braking System (ABS) warning light
- BRAKE or Brake warning light
- Charge warning light
- Door open warning light
- Engine oil pressure warning light
- High temperature warning light (red)
- or Low fuel warning light
- Low tire pressure warning light (if so equipped)
- KEY NISSAN Intelligent Key® warning light (if so equipped)
- PS Power steering warning light
- Seat belt warning light and chime
- Shift P warning light (if so equipped)
- Supplemental air bag warning light
- P Automatic Transmission (A/T)/Continuously Variable Transmission (CVT) position indicator light (if so equipped)
- CRUISE Cruise main switch indicator light (if so equipped)
- SET Cruise set switch indicator light (if so equipped)
- Engine start operation indicator (if so equipped)
- Front passenger air bag status light
- High beam indicator light (blue)
- Malfunction Indicator Light (MIL)
- O/D OFF Overdrive off indicator light (if so equipped)
- Security indicator light (if so equipped)
- Side and headlight indicator light (green) (if so equipped)
- Slip indicator light
- Turn signal/hazard indicator lights
- Vehicle Dynamic Control (VDC) off indicator light

Information Provided by:
DEALER E-PROCESS

CHECKING BULBS

With all doors closed, apply the parking brake and place the ignition switch in the ON position without starting the engine. The following lights will come on:

BRAKE or , , , , , PS

If equipped, the following lights come on briefly and then go off:

ABS or , (red), , O/D OFF or

SPORT, , , , , ,

If any light fails to come on, it may indicate a burned-out bulb or an open circuit in the electrical system. Have the system repaired promptly.

WARNING LIGHTS

ABS or Anti-lock Braking System (ABS) warning light

When the ignition switch is placed in the ON position, the Anti-lock Braking System (ABS) warning light illuminates and then turns off. This indicates the ABS is operational.

If the ABS warning light illuminates while the engine is running, or while driving, it may indicate the ABS is not functioning properly. Have the system checked by a NISSAN dealer.

If an ABS malfunction occurs, the anti-lock function is turned off. The brake system then operates normally, but without anti-lock assistance. See “Brake system” in the “Starting and driving” section.

BRAKE or Brake warning light

This light functions for both the parking brake and the foot brake systems.

Parking brake indicator

When the ignition switch is placed in the ON position, the light comes on when the parking brake is applied.

Low brake fluid warning light

When the ignition switch is placed in the ON position, the light warns of a low brake fluid level. If the light comes on while the engine is running with the parking brake not applied, stop the vehicle and perform the following:

1. Check the brake fluid level. Add brake fluid as necessary. See “Brake fluid” in the “Maintenance and do-it-yourself” section of this manual.
2. If the brake fluid level is correct, have the warning system checked by a NISSAN dealer.

⚠ WARNING

- **Your brake system may not be working properly if the warning light is on. Driving could be dangerous. If you judge it to be safe, drive carefully to the nearest service station for repairs. Otherwise, have your vehicle towed because driving it could be dangerous.**
- **Pressing the brake pedal with the engine stopped and/or a low brake fluid level may increase your stopping distance and braking will require greater pedal effort as well as pedal travel.**
- **If the brake fluid level is below the MINIMUM or MIN mark on the brake fluid reservoir, do not drive until the brake system has been checked at a NISSAN dealer.**

Anti-lock Braking System (ABS) warning indicator

When the parking brake is released and the brake fluid level is sufficient, if both the brake warning light and the Anti-lock Braking System (ABS) warning light illuminate, it may indicate the

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ABS is not functioning properly. Have the brake system checked, and if necessary, repaired by a NISSAN dealer promptly. Avoid high-speed driving and abrupt braking. (See “Anti-lock Braking System (ABS) warning light” in this section.)

Charge warning light

If this light comes on while the engine is running, it may indicate the charging system is not functioning properly. Turn the engine off and check the drive belt. If the belt is loose, broken, missing, or if the light remains on, see a NISSAN dealer immediately.

⚠ CAUTION

Do not continue driving if the drive belt is loose, broken or missing.

Door open warning light

This light comes on when any of the doors are not closed securely while the ignition switch is placed in the ON position.

Power steering warning light

⚠ WARNING

- **If the engine is not running or is turned off while driving, the power assist for the steering will not work. Steering will be harder to operate.**
- **When the power steering warning light illuminates with the engine running, there will be no power assist for the steering. You will still have control of the vehicle but the steering will be harder to operate. Have the power steering system checked by a NISSAN dealer.**

When the ignition switch is placed in the ON position, the power steering warning light illuminates. After starting the engine, the power steering warning light turns off. This indicates the power steering system is operational.

If the power steering warning light illuminates while the engine is running, it may indicate the power steering system is not functioning properly and may need servicing. Have the power steering system checked by a NISSAN dealer.

When the power steering warning light illuminates with the engine running, there will be no power assist for the steering but you will still have control of the vehicle. At this time, greater steering effort is required to operate the steering wheel, especially in sharp turns and at low speeds.

See “Power steering” in the “Starting and driving” section.

Engine oil pressure warning light

This light warns of low engine oil pressure. If the light flickers or comes on during normal driving, pull off the road in a safe area, stop the engine **immediately** and call a NISSAN dealer or other authorized repair shop.

The engine oil pressure warning light is not designed to indicate a low oil level. Use the dipstick to check the oil level. See “Engine oil” in the “Maintenance and do-it-yourself” section of this manual.

⚠ CAUTION

Running the engine with the engine oil pressure warning light on could cause serious damage to the engine almost immediately. Such damage is not covered by warranty. Turn off the engine as soon as it is safe to do so.

DEALER E-PROCESS

High temperature warning light (red)

When the ignition switch is placed in the ON position, the high temperature warning light illuminates and then turns off. This indicates that the high temperature sensor in the engine coolant system is operational.

⚠CAUTION

If the high temperature warning light illuminates while the engine is running, it may indicate the engine temperature is extremely high. Stop the vehicle safely as soon as possible. If the vehicle is overheated, continuing vehicle operation may seriously damage the engine. See "If your vehicle overheats" in the "In case of emergency" section.

or

Low fuel warning light

This light comes on when the fuel level in the fuel tank is getting low. Refuel as soon as it is convenient, preferably before the fuel gauge reaches E (Empty). **There will be a small reserve of fuel in the tank when the fuel gauge reaches E (Empty), showing no more fuel bars.**

Low tire pressure warning light (if so equipped)

Your vehicle is equipped with a Tire Pressure Monitoring System (TPMS) that monitors the tire pressure of all tires except the spare.

The low tire pressure warning light warns of low tire pressure or indicates that the TPMS is not functioning properly.

After the ignition switch is placed in the ON position, this light illuminates for about 1 second and turns off.

Low tire pressure warning:

If the vehicle is being driven with low tire pressure, the warning light will illuminate.

A CHECK TIRE PRES (pressure) warning message is also displayed in the odometer.

When the low tire pressure warning light illuminates, you should stop and adjust the tire pressure of all 4 tires to the recommended COLD tire pressure shown on the Tire and Loading Information label located in the driver's door opening. The low tire pressure warning light does not automatically turn off when the tire pressure is adjusted. After the tire is inflated to the recommended pressure, the vehicle must be driven at speeds above 16 MPH (25 km/h) to activate the TPMS and turn off the low tire pressure warning light. Use a tire pressure gauge to check the tire pressure.

The low tire pressure warning light remains illuminated until the tires are inflated to the recommended COLD tire pressure. The CHECK TIRE PRES warning message is displayed each time the ignition switch is placed in the ON position as long as the low tire pressure warning light remains illuminated.

For additional information, see ″Check tire pressure warning message reset button″ in the ″Instruments and controls″ section and "Tire Pressure Monitoring System (TPMS)" in the "Starting and driving" section and in the "In case of emergency" section.

TPMS malfunction:

If the TPMS is not functioning properly, the low tire pressure warning light will flash for approximately 1 minute when the ignition switch is placed in the ON position. The light will remain on after the 1 minute. Have the system checked by a NISSAN dealer.

For additional information, see "Tire Pressure Monitoring System (TPMS)" in the "Starting and driving" section and "Tire pressure" in the "Maintenance and do-it-yourself" section.

DEALER E-PROCESS

⚠WARNING

- **If the light does not illuminate with the ignition switch placed in the ON position, have the vehicle checked by a NISSAN dealer as soon as possible.**
- **If the light illuminates while driving, avoid sudden steering maneuvers or abrupt braking, reduce vehicle speed, pull off the road to a safe location and stop the vehicle as soon as possible. Driving with under-inflated tires may permanently damage the tires and increase the likelihood of tire failure. Serious vehicle damage could occur and may lead to an accident and could result in serious personal injury. Check the tire pressure for all four tires. Adjust the tire pressure to the recommended COLD tire pressure shown on the Tire and Loading Information label located in the driver's door opening to turn the low tire pressure warning light OFF. If the light still comes on while driving after adjusting the tire pressure, a tire may be flat. If you have a flat tire, replace it with a spare tire as soon as possible.**
- **When a spare tire is mounted or a wheel is replaced the TPMS will not function and the low tire pressure warning light will flash for approximately 1 minute. The light will remain on after 1 minute. Contact your NISSAN dealer as soon as possible for tire replacement and/or system resetting.**
- **Replacing tires with those not originally specified by NISSAN could affect the proper operation of the TPMS.**

⚠CAUTION

- **The TPMS is not a substitute for the regular tire pressure check. Be sure to check the tire pressure regularly.**
- **If the vehicle is being driven at speeds of less than 16 MPH (25 km/h), the TPMS may not operate correctly.**
- **Be sure to install the specified size of tires to the 4 wheels correctly.**

NISSAN Intelligent Key® warning light (if so equipped)

After the ignition switch is placed in the "ON" position, this light comes on for about 2 seconds and then turns off. This light illuminates or blinks as follows:

- The light blinks in yellow when the door is closed with the Intelligent Key left outside the vehicle and the ignition switch in the "ACC" or "ON" position. Make sure that the Intelligent Key is inside the vehicle.
- The light blinks in green when the Intelligent Key battery is running out of power. Replace the battery with a new one. See "Battery" in the "Maintenance and do-it-yourself" section.
- The light illuminates in yellow when it warns of a malfunction with the electrical steering lock system or the Intelligent Key system.

If the warning light illuminates in yellow while the engine is stopped, it may be impossible to free the steering lock or to start the engine. If the light comes on while the engine is running, you can drive the vehicle. However in these cases, contact a NISSAN dealer for repair as soon as possible.

Information Provided by:
DEALER E-PROCESS

See “NISSAN Intelligent Key®” in the “Pre-driving checks and adjustments” section.

Seat belt warning light and chime

The light and chime remind you to fasten your seat belts. The light illuminates whenever the ignition switch is placed in the ON or START position and remains illuminated until the driver’s seat belt is fastened. At the same time, the chime sounds for about 6 seconds unless the driver’s seat belt is securely fastened.

The seat belt warning light may also illuminate if the front passenger’s seat belt is not fastened when the front passenger’s seat is occupied . For 7 seconds after the ignition switch is placed in the ON position, the system does not activate the warning light for the front passenger.

Refer to “Seat belts” in the “Safety—Seats, seat belts and supplemental restraint system” section for precautions on seat belt usage.

Shift P warning light (if so equipped)

This light blinks red and the key reminder chime sounds if the shift selector is in any position other than P (Park) and the ignition switch is in the OFF position. Return the shift selector to P (Park) with the ignition switch in the OFF position and the light will turn off. Place the ignition switch in the LOCK position and the chime will turn off.

Supplemental air bag warning light

When the ignition switch is placed in the ON or START position, the supplemental air bag warning light illuminates for about 7 seconds and then turns off. This means the system is operational.

If any of the following conditions occur, the front air bag, side air bag, curtain air bag, and pretensioner seat belt systems need servicing and your vehicle must be taken to a NISSAN dealer:

- The supplemental air bag warning light remains on after approximately 7 seconds.
- The supplemental air bag warning light flashes intermittently.
- The supplemental air bag warning light does not come on at all.

Unless checked and repaired, the supplemental restraint system (air bag system) and/or the pretensioners may not function properly. For additional details see “Supplemental restraint system” in the “Safety—Seats, seat belts and supplemental restraint system” section of this manual.

⚠WARNING

If the supplemental air bag warning light is on, it could mean that the front air bag, side air bag, curtain air bag systems and/or pretensioner systems will not operate in an accident. To help avoid injury to yourself or others, have your vehicle checked by a NISSAN dealer as soon as possible.

INDICATOR LIGHTS

Automatic Transmission (A/T)/Continuously Variable Transmission (CVT) position indicator light (if so equipped)

When the ignition switch is placed in the ON position, this indicator light shows the shift selector position. See “Driving the vehicle” in the “Starting and driving” section of this manual.

Cruise main switch indicator light (if so equipped)

The light comes on when the cruise control main switch is pushed. The light goes out when the main switch is pushed again. When the cruise main switch indicator light comes on, the cruise control system is operational.

Information Provided by:
DEALER E-PROCESS

SET Cruise set switch indicator light (if so equipped)

The light comes on while the vehicle speed is controlled by the cruise control system. If the light blinks while the engine is running, it may indicate the cruise control system is not functioning properly. Have the system checked by a NISSAN dealer.

Engine start operation indicator (if so equipped)

For vehicles equipped with push button ignition this indicator illuminates when the ignition switch is in the LOCK, OFF, ACC or ON position with the shift selector in the P (Park) position.

This indicator means that the engine will start by pushing the push-button ignition switch with the brake pedal depressed.

Front passenger air bag status light

The front passenger air bag status light ( ) will be lit and the passenger front air bag will be OFF depending on how the front passenger seat is being used.

For front passenger air bag status light operation, see “Front passenger air bag and status light” in the “Safety — Seats, seat belts and supplemental restraint system” section of this manual.

High beam indicator light (blue)

This blue light comes on when the headlight high beams are on and goes out when the low beams are selected.

The high beam indicator light also comes on when the passing signal is activated.

Malfunction Indicator Light (MIL)

If this indicator light comes on steady or blinks while the engine is running, it may indicate a potential emission control malfunction.

The may also come on steady if the fuel-filler cap is loose or missing, or if the vehicle runs out of fuel. Check to make sure the fuel-filler cap is installed and closed tightly, and that the vehicle has at least 3 gallons (11.4 liters) of fuel in the fuel tank.

After a few driving trips, the light should turn off if no other potential emission control system malfunction exists.

If this indicator light comes on steady for 20 seconds and then blinks for 10 seconds when the engine is not running, it indicates that the vehicle is not ready for an emission control system inspection/maintenance test. See “Readiness for inspection/maintenance (I/M) test” in the “Technical and consumer information” section of this manual.

Operation

The Malfunction Indicator Light will come on in one of two ways:

- Malfunction Indicator Light on steady — An emission control system malfunction has been detected. Check the fuel-filler cap. If the LOOSE FUEL CAP warning message is displayed in the odometer, and the fuel-filler cap is loose or missing, tighten or install the cap and continue to drive the vehicle. The light should turn off after a few driving trips. If the light does not turn off after a few driving trips, have the vehicle inspected by a NISSAN dealer. You do not need to have your vehicle towed to the dealer.

Information Provided by: DEALER E-PROCESS

- Malfunction Indicator Light blinking — An engine misfire has been detected which may damage the emission control system. To reduce or avoid emission control system damage:
  - do not drive at speeds above 45 MPH (72 km/h).
  - avoid hard acceleration or deceleration.
  - avoid steep uphill grades.
  - if possible, reduce the amount of cargo being hauled.

The Malfunction Indicator Light may stop blinking and come on steady. Have the vehicle inspected by a NISSAN dealer. You do not need to have your vehicle towed to the dealer.

⚠ CAUTION

Continued vehicle operation without having the emission control system checked and repaired as necessary could lead to poor driveability, reduced fuel economy, and possible damage to the emission control system.

Overdrive off indicator light (A/T / CVT models) (if so equipped)

The overdrive off indicator light illuminates when the overdrive off mode is selected.

For additional information, see “Driving the vehicle” in the “Starting and driving” section of this manual.

Security indicator light (if so equipped)

This light blinks when the ignition switch is in the OFF, LOCK or ACC position. The blinking security indicator light indicates that the security systems equipped on the vehicle are operational.

For additional information, see “Security systems” later in this section.

Side light and headlight indicator light (green) (if so equipped)

The side light and headlight indicator light illuminates when the side light or headlight position is selected. See “Headlight and turn signal switch” later in this section for further details.

Slip indicator light

This indicator will blink when the VDC system or the traction control system is operating, thus alerting that the vehicle is nearing its traction limits. The road surface may be slippery.

Turn signal/hazard indicator lights

The appropriate light flashes when the turn signal switch is activated.

Both lights flash when the hazard switch is turned on.

Vehicle Dynamic Control (VDC) off indicator light

This indicator light comes on when the Vehicle Dynamic Control off switch is pushed to OFF. This indicates the Vehicle Dynamic Control system is not operating.

Push the Vehicle Dynamic Control off switch again or restart the engine and the system will operate normally. See “Vehicle Dynamic Control (VDC) system” in the “Starting and driving” section of this manual.

Information Provided by: DEALER E-PROCESS

The Vehicle Dynamic Control light also comes on when you place the ignition switch in the ON position. The light will turn off after about 2 seconds if the system is operational. If the light stays on or comes on along with the indicator light while you are driving, have the Vehicle Dynamic Control system checked by a NISSAN dealer.

While the Vehicle Dynamic Control system is operating, you might feel slight vibration or hear the system working when starting the vehicle or accelerating, but this is normal.

AUDIBLE REMINDERS

Brake pad wear warning

The disc brake pads have audible wear warnings. When a disc brake pad requires replacement, it makes a high pitched scraping sound when the vehicle is in motion, whether or not the brake pedal is depressed. Have the brakes checked as soon as possible if the warning sound is heard.

Key reminder chime

A chime sounds if the driver's door is opened while the key is left in the ignition switch. Remove the key and take it with you when leaving the vehicle.

Light reminder chime

With the ignition switch placed in the OFF position, a chime sounds when the driver's door is opened if the headlights or parking lights are on.

Turn the headlight control switch off before leaving the vehicle.

NISSAN Intelligent Key® door buzzer (if so equipped)

The Intelligent Key door buzzer sounds if any one of the following improper operations is found.

- The ignition switch is not returned to the LOCK position when locking the doors.
- The Intelligent Key is left inside the vehicle when locking the doors.
- The Intelligent Key is taken outside the vehicle when operating the vehicle.
- Any doors are not closed securely when locking the doors.

When the buzzer sounds, be sure to check both the vehicle and the Intelligent Key. See "NISSAN Intelligent Key®" in the "Pre-driving checks and adjustments" section.

Parking brake reminder chime

A chime sounds if the parking brake is set and the vehicle is driven. The chime will stop if the parking brake is released or the vehicle speed returns to zero.

Information Provided by:
DEALER E-PROCESS

NISSAN VEHICLE IMMOBILIZER SYSTEM (if so equipped)

The NISSAN Vehicle Immobilizer System will not allow the engine to start without the use of a registered key.

If the engine fails to start using a registered key (for example, when interference is caused by another registered key, an automated toll road device or automatic payment device on the key ring), restart the engine using the following procedures:

1. Leave the ignition switch in the ON position for approximately 5 seconds.
2. Turn the ignition switch to the OFF or LOCK position, and wait approximately 10 seconds.
3. Repeat steps 1 and 2.
4. Restart the engine while holding the device (which may have caused the interference) separate from the registered key.

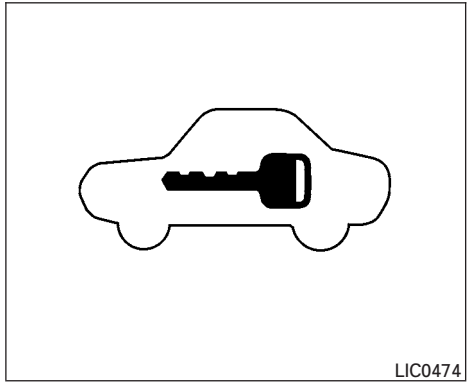
If the no start condition re-occurs, NISSAN recommends placing the registered key on a separate key ring to avoid interference from other devices.

Statement related to Section 15 of FCC Rules for NISSAN Vehicle Immobilizer System (CONT ASSY — IMMOBILIZER, ANT ASSY — IMMOBILIZER)

This device complies with part 15 of the FCC Rules and RSS-210 of Industry Canada. Operation is subject to the following two conditions;

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation of the device.

CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.



Security indicator light

This light blinks whenever the ignition switch is placed in the LOCK, OFF or ACC position.

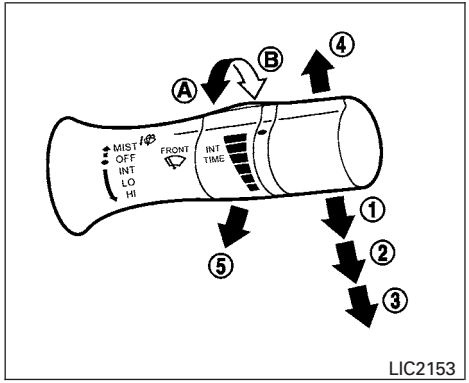
This function indicates the NISSAN Vehicle Immobilizer System is operational.

If the NISSAN Vehicle Immobilizer System is malfunctioning, the light will remain on while the ignition switch is placed in the ON position.

If the light still remains on and/or the engine will not start, see a NISSAN dealer for NISSAN Vehicle Immobilizer System service as soon as possible. Please bring all registered keys that you have when visiting your NISSAN dealer for service.

Information Provided by:
DEALER E-PROCESS

WINDSHIELD WIPER AND WASHER SWITCH



Type A

SWITCH OPERATION

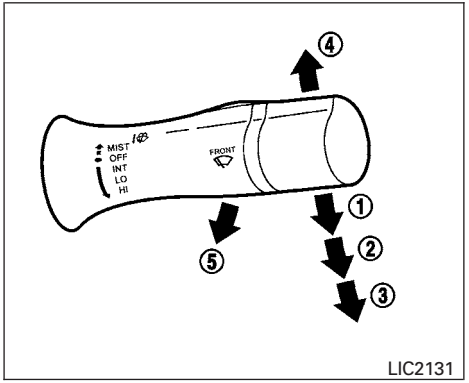
The windshield wiper and washer operates when the ignition switch is in the ON position.

Push the lever down to operate the wiper at the following speed:

① Intermittent (INT) — intermittent operation can be adjusted by turning the knob toward Ⓐ (Slower) or Ⓑ (Faster).

② Low (LO) — continuous low speed operation

③ High (HI) — continuous high speed operation



Type B

Push the lever up ④ to have one sweep operation (MIST) of the wiper.

Pull the lever toward you ⑤ to operate the washer. The wiper will also operate several times.

⚠WARNING

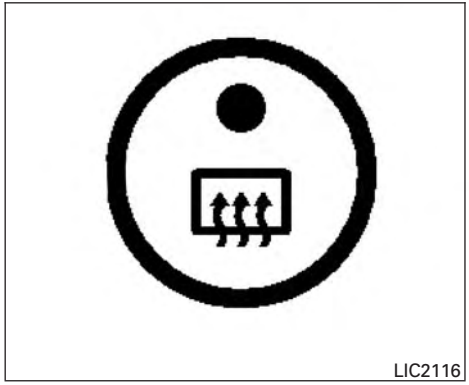
In freezing temperatures the washer solution may freeze on the windshield and obscure your vision which may lead to an accident. Warm the windshield with the defroster before you wash the windshield.

⚠CAUTION

- **Do not operate the washer continuously for more than 30 seconds.**
- **Do not operate the washer if the reservoir is empty.**
- **Do not fill the windshield-washer fluid reservoir with washer fluid concentrates at full strength. Some methyl alcohol based washer fluid concentrates may permanently stain the grille if spilled while filling the windshield-washer fluid reservoir.**
- **Pre-mix windshield-washer fluid concentrates with water to the manufacturer's recommended levels before pouring the fluid into the windshield-washer fluid reservoir. Do not use the windshield-washer fluid reservoir to mix the windshield-washer fluid concentrate and water.**

Information Provided by:
DEALER E-PROCESS

REAR WINDOW AND OUTSIDE MIRROR (if so equipped) DEFROSTER SWITCH



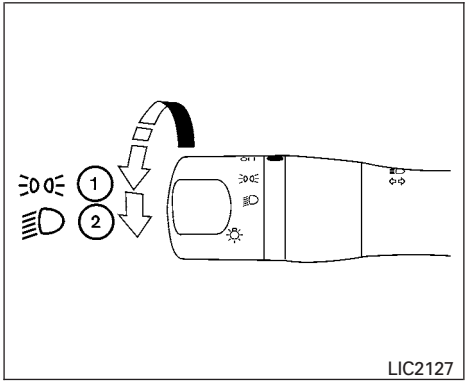
To defrost the rear window glass, start the engine and push the rear window defroster switch on. The rear window defroster indicator light on the switch comes on. Push the switch again to turn the defroster off.

The rear window defroster automatically turns off after approximately 15 minutes.

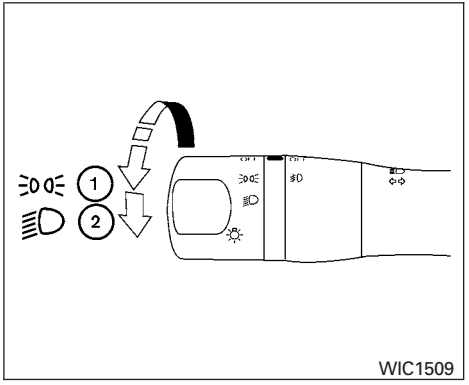
⚠ CAUTION

When cleaning the inner side of the rear window, be careful not to scratch or damage the rear window defroster.

HEADLIGHT AND TURN SIGNAL SWITCH



Type A



Type B

HEADLIGHT CONTROL SWITCH

Lighting

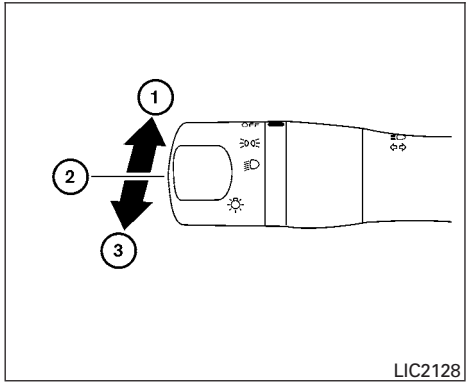
① When turning the switch to the position, the front parking, tail, license plate and instrument panel lights come on.

② When turning the switch to the position, the headlights come on and all the other lights remain on.

⚠ CAUTION

Use the headlights with the engine running to avoid discharging the vehicle battery.

Information Provided by: DEALER E-PROCESS



Headlight beam select

① To select the high beam function, push the lever forward. The high beam lights come on and the light illuminates.

② Pull the lever back to select the low beam.

③ Pulling and releasing the lever flashes the headlight high beams on and off.

Battery saver system

If the ignition switch is placed in the OFF position while the headlight switch is in the or position, the headlights will turn off after a period of time.

⚠CAUTION

Even though the battery saver feature automatically turns off the headlights after a period of time, you should turn the headlight switch to the OFF position when the engine is not running to avoid discharging the vehicle battery.

DAYTIME RUNNING LIGHT SYSTEM (Canada only)

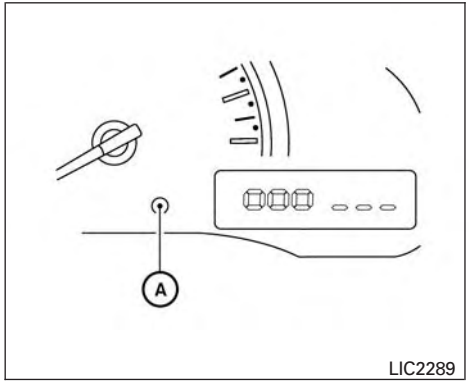
The headlights automatically illuminate at a reduced intensity when the engine is started with the parking brake released. The daytime running lights operate with the headlight switch in the OFF position or in the position. Turn the headlight switch to the position for full illumination when driving at night.

If the parking brake is applied before the engine is started, the daytime running lights do not illuminate. The daytime running lights illuminate when the parking brake is released. The daytime running lights will remain on until the ignition switch is placed in the OFF position.

⚠WARNING

When the daytime running light system is active, tail lights on your vehicle are not on. It is necessary at dusk to turn on your headlights. Failure to do so could cause an accident injuring yourself and others.

Information Provided by:
DEALER E-PROCESS



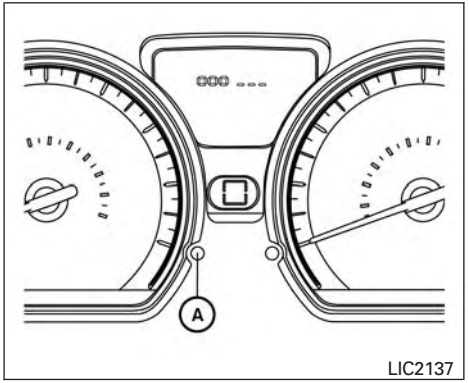
Type A

INSTRUMENT BRIGHTNESS CONTROL

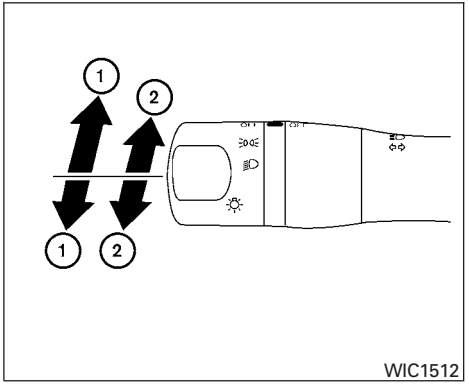
The instrument brightness control operates when the headlight control switch is in the or position.

Type A: Turn the control Ⓐ to adjust the brightness of instrument panel lights when driving at night.

Type B: Press the control Ⓐ to adjust the brightness of instrument panel lights when driving at night.



Type B



TURN SIGNAL SWITCH

Turn signal

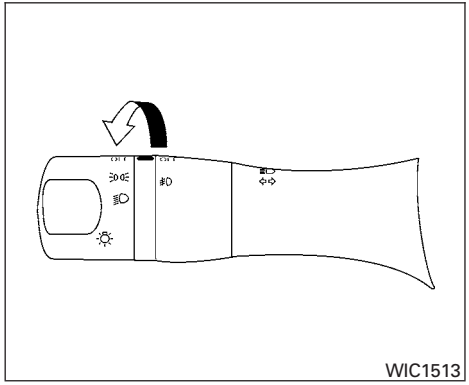
① Move the lever up or down to signal the turning direction. When the turn is completed, the turn signals cancel automatically.

Lane change signal

② To signal a lane change, move the lever up or down to the point where the indicator light begins to flash, but the lever does not latch.

The turn signal will flash three times automatically.

Information Provided by:
DEALER E-PROCESS


WIC1513

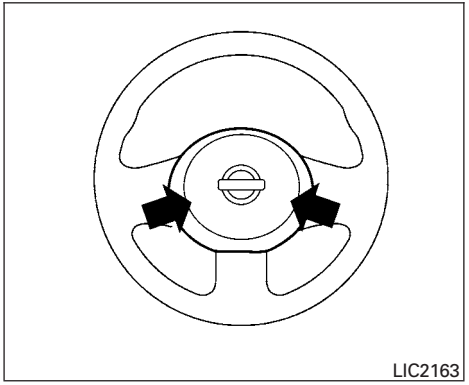
FOG LIGHT SWITCH (if so equipped)

To turn the fog lights on, turn the headlight switch to the position, then turn the fog light switch to the position.

To turn the fog lights off, turn the fog light switch to the OFF position.

The headlights must be on and the low beams selected for the fog lights to operate. The fog lights automatically turn off when the high beam headlights are selected.

HORN

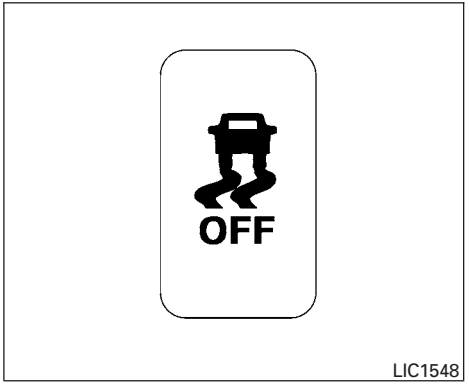

LIC2163

To sound the horn, push near the horn icon of the steering wheel.

⚠WARNING

Do not disassemble the horn. Doing so could affect proper operation of the supplemental front air bag system. Tampering with the supplemental front air bag system may result in serious personal injury.

VEHICLE DYNAMIC CONTROL (VDC) OFF SWITCH



LIC1548

The vehicle should be driven with the Vehicle Dynamic Control (VDC) system on for most driving conditions.

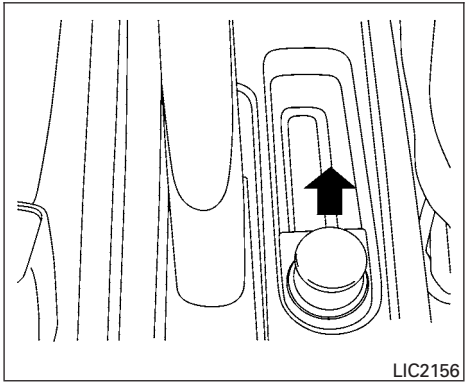
If the vehicle is stuck in mud or snow, the VDC system reduces the engine output to reduce wheel spin. The engine speed will be reduced even if the accelerator is depressed to the floor. If maximum engine power is needed to free a stuck vehicle, turn the VDC system off.

To turn off the VDC system, push the VDC OFF switch. The indicator will come on.

Information Provided by:
DEALER E-PROCESS

POWER OUTLET

Push the VDC OFF switch again or restart the engine to turn on the system. See “Vehicle Dynamic Control (VDC) system” in the “Starting and driving” section.

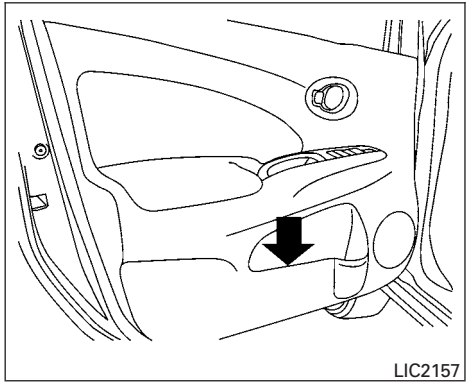

LIC2156

The power outlet is for powering electrical accessories such as cellular telephones. The outlet is rated at 12 volt, 120 W (10A) maximum.

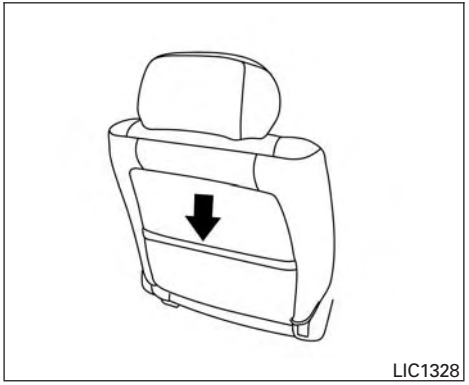
⚠CAUTION

- **The outlet and plug may be hot during or immediately after use.**
- **Only certain power outlets are designed for use with a cigarette lighter unit. Do not use any other power outlet for an accessory lighter. See your NISSAN dealer for additional information.**
- **Do not use with accessories that exceed a 12 volt, 120 W (10A) power draw. Do not use double adapters or more than one electrical accessory.**
- **Use power outlets with the engine running to avoid discharging the vehicle battery.**
- **Avoid using power outlets when the air conditioner (if so equipped), headlights or rear window defroster (if so equipped) is on.**
- **Before inserting or disconnecting a plug, be sure the electrical accessory being used is turned OFF.**
- **Push the plug in as far as it will go. If good contact is not made, the plug may overheat or the internal temperature fuse may open.**
- **When not in use, be sure to close the cap. Do not allow water or any other liquid to contact the outlet.**

Information Provided by:
DEALER E-PROCESS

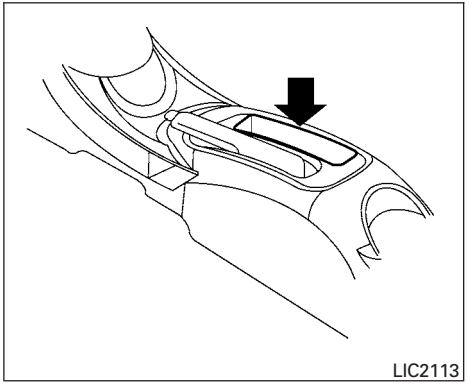

LIC2157

MAP POCKETS


LIC1328

SEATBACK POCKET (if so equipped)

The seatback pocket is located on the back of the passenger's seat. The pocket can be used to store maps.

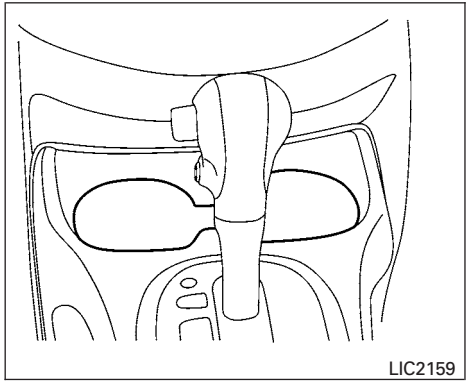

LIC2113

STORAGE TRAYS

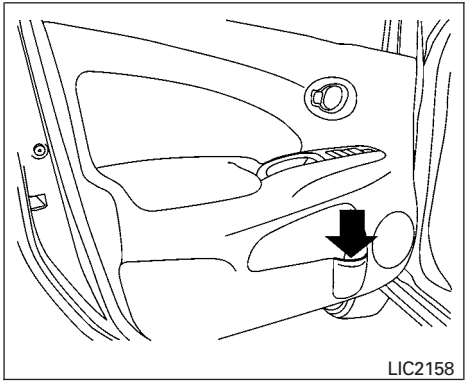
⚠WARNING

Do not place sharp objects in the trays to help prevent injury in an accident or sudden stop.

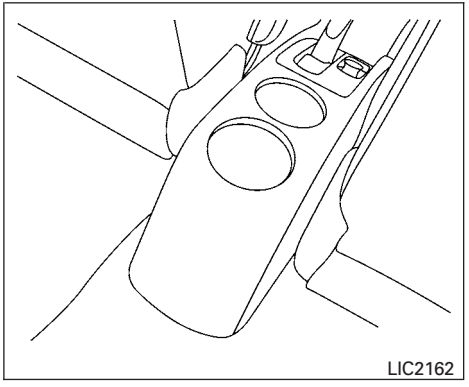
Information Provided by:
DEALER E-PROCESS



Front



Bottle holder



Rear

CUP HOLDERS

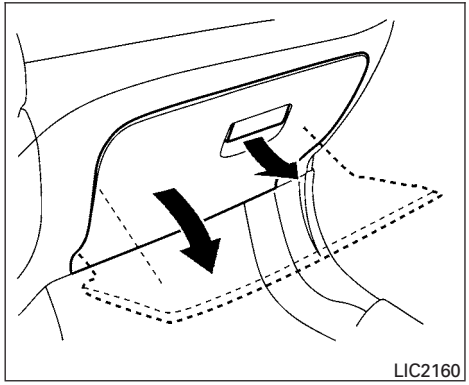
⚠CAUTION

- **Avoid abrupt starting and braking when the cup holder is being used to prevent spilling the drink. If the liquid is hot, it can scald you or your passenger.**
- **Use only soft cups in the cup holder. Hard objects can injure you in an accident.**

⚠CAUTION

- **Do not use bottle holder for any other objects that could be thrown about in the vehicle and possibly injure people during sudden braking or an accident.**
- **Do not use bottle holder for open liquid containers.**

Information Provided by:
DEALER E-PROCESS


LIC2160

GLOVE BOX

Open the glove box by pulling the handle.

⚠WARNING

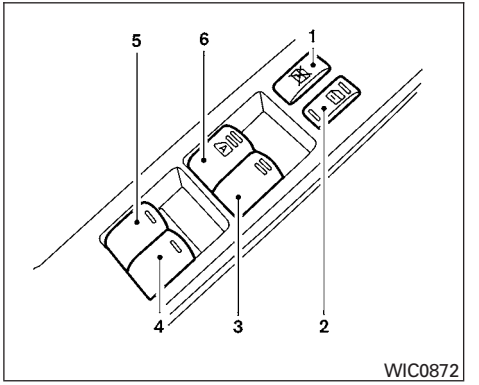
Keep glove box lid closed while driving to help prevent injury in an accident or a sudden stop.

POWER WINDOWS (if so equipped)

⚠WARNING

- **Make sure that all passengers have their hands, etc. inside the vehicle while it is in motion and before closing the windows. Use the window lock switch to prevent unexpected use of the power windows.**
- **Do not leave children unattended inside the vehicle. They could unknowingly activate switches or controls and become trapped in a window. Unattended children could become involved in serious accidents.**

The power windows operate when the ignition switch is placed in the ON position, or for a period of time after the ignition switch is placed in the OFF position. If the driver's or passenger's door is opened during this period of time, the power to the windows is canceled.



WIC0872

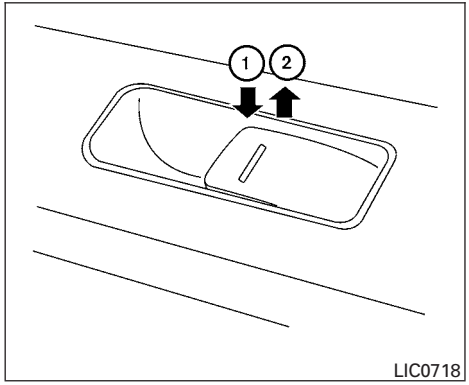
1. Window lock button
2. Power door lock switch
3. Front passenger's side window switch
4. Right rear passenger's window switch
5. Left rear passenger's window switch
6. Driver's side automatic switch

Driver's side power window switch

The driver's side control panel is equipped with switches to open or close the front and rear passenger windows.

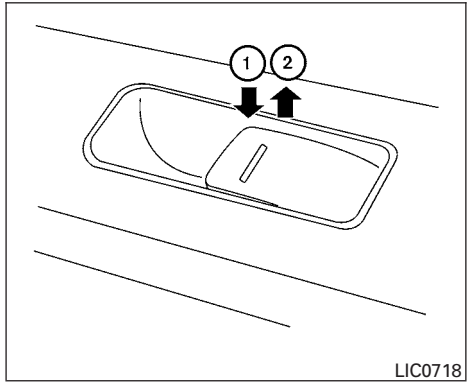
To open a window, push the switch and hold it down. To close a window, pull the switch and hold it up. To stop the opening or closing function at any time, simply release the switch.

Information Provided by:
DEALER E-PROCESS



Front passenger's power window switch

The passenger's window switch operates only the corresponding passenger's window. To open the window, push the switch and hold it down ①. To close the window, pull the switch up ②.

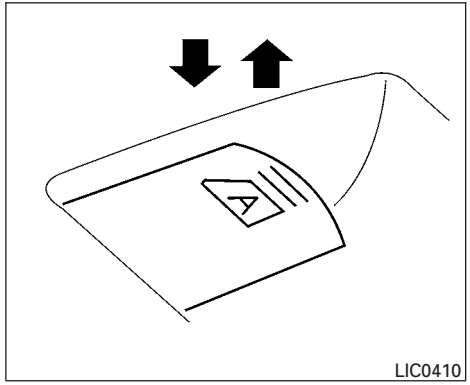


Rear power window switch

The rear power window switches open or close only the corresponding windows. To open the window, push the switch and hold it down ①. To close the window, pull the switch up ②.

Locking passengers' windows

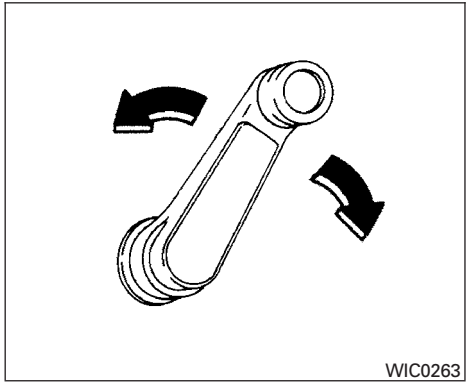
When the window lock button is depressed, only the driver's side window can be opened or closed. Push it again to cancel the window lock function.



Automatic operation

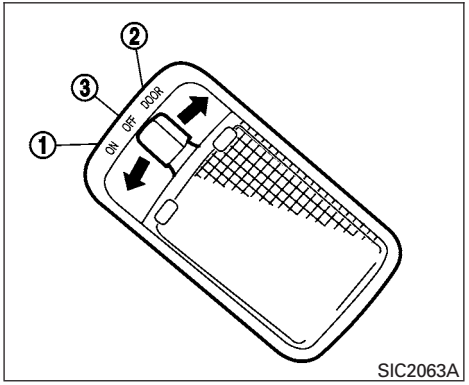
To fully open a window equipped with automatic operation, press the window switch down to the second detent and release it; it need not be held. The window automatically opens all the way. To stop the window, lift the switch up while the window is opening.

Information Provided by:
DEALER E-PROCESS


WIC0263

MANUAL WINDOWS (if so equipped)

The side windows can be opened or closed by turning the hand crank on each door.



SIC2063A

The interior light has a three-position switch and operates regardless of ignition switch position.

When the switch is in the ON position ①, the interior lights illuminate, regardless of door position. The lights will go off after a period of time unless the ignition switch is placed in the ACC or ON position.

When the switch is in the DOOR position ②, the interior lights will stay on for a period of time when:

- The doors are unlocked by the keyfob (if so equipped), a key or the power door lock switch (if so equipped) while all doors are closed and the ignition switch is placed in the OFF position.
- The driver's door is opened and then closed while the key is removed from the ignition switch.
- The key is removed from the ignition switch while all doors are closed.

The lights will turn off while the timer is activated when:

- The driver's door is locked by the keyfob (if so equipped), a key, or the power door lock switch (if so equipped).
- The ignition switch is placed in the ON position.

When the switch is in the OFF position ③, the interior lights do not illuminate, regardless of door position.

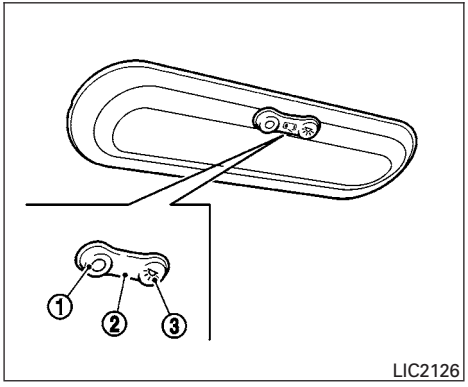
The lights will turn off automatically after a period of time while doors are open to prevent the battery from becoming discharged.

Information Provided by:
DEALER E-PROCESS

MAP LIGHT (if so equipped)

⚠ CAUTION

Do not use for extended periods of time with the engine stopped. This could result in a discharged battery.



The map light has a three-position switch and operates regardless of ignition switch position.

When the switch is in the ON position ③, the map light illuminates, regardless of door position. The light will go off after a period of time unless the ignition switch is placed in the ACC or ON position.

When the switch is in the DOOR position ②, the map light will stay on for a period of time when:

- The doors are unlocked by the keyfob (if so equipped), a key or the power door lock switch while all doors are closed and the ignition switch is placed in the OFF position.
- The driver's door is opened and then closed while the key is removed from the ignition switch.
- The key is removed from the ignition switch while all doors are closed.

The light will turn off while the timer is activated when:

- The driver's door is locked by the keyfob (if so equipped), a key, or the power door lock switch.
- The ignition switch is placed in the ON position.

When the switch is in the OFF position ①, the map light does not illuminate, regardless of door position.

The light will turn off automatically after a period of time while doors are open to prevent the battery from becoming discharged.

⚠ CAUTION

Do not use for extended periods of time with the engine stopped. This could result in a discharged battery.

DEALER E-PROCESS

TRUNK LIGHT

The light illuminates when the trunk lid is opened. When the trunk lid is closed, the light goes off. For bulb replacement procedures, refer to “Exterior and interior lights” in the “Maintenance and do-it-yourself” section of this manual.

Information Provided by:
DEALER E-PROCESS

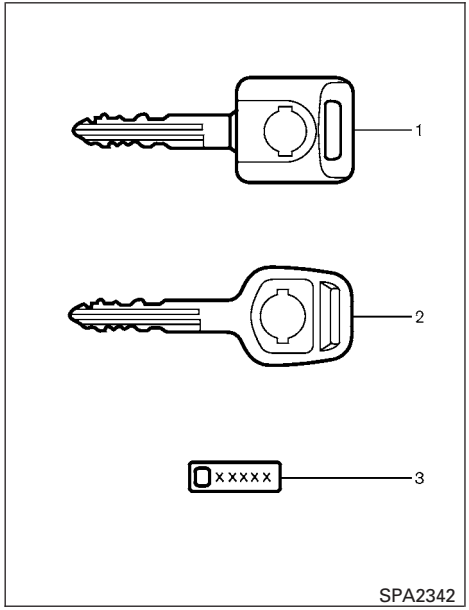
MEMO

Information Provided by:
DEALER E-PROCESS

3 Pre-driving checks and adjustments

Keys 3-2
NISSAN Intelligent Key® (if so equipped) 3-3
NISSAN vehicle immobilizer system keys 3-4
Doors 3-5
Locking with key 3-5
Locking with inside lock knob 3-6
Locking with power door lock switch (if so equipped) 3-6
Automatic door locks (if so equipped) 3-7
Child safety rear door lock 3-7
Remote keyless entry system (if so equipped) 3-8
How to use remote keyless entry system 3-9
NISSAN Intelligent Key® (if so equipped) 3-11
Operating range 3-13
Door locks/unlocks precaution 3-14
NISSAN Intelligent Key® Operation 3-14
How to use the remote keyless entry function 3-17
Warning lights and audible reminders 3-20
Warning signals 3-21
Troubleshooting guide 3-22
Hood 3-24
Trunk lid 3-25
Key operation 3-25
Opening the trunk lid 3-25
Opener operation (if so equipped) 3-26
Interior trunk lid release 3-26
Fuel-filler door 3-27
Opener operation 3-27
Fuel-filler cap 3-27
Steering wheel 3-30
Tilt operation 3-30
Sun visors 3-30
Vanity mirror (if so equipped) 3-31
Card holder (driver's side only) 3-31
Mirrors 3-31
Rearview mirror 3-31
Outside mirrors 3-32

Information Provided by:
DEALER E-PROCESS

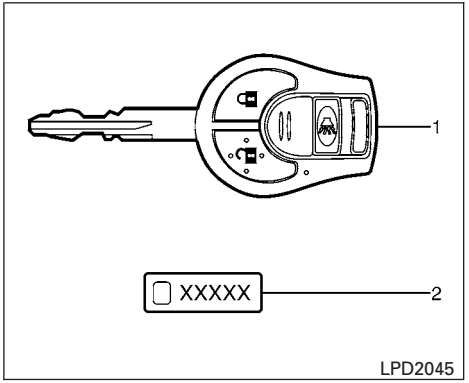


Type A

1. Master key
2. Master key
3. Key number plate

A key number plate is supplied with your keys. Record the key number and keep it in a safe place (such as your wallet), not in the vehicle. If you lose your keys, see a NISSAN dealer for duplicates by using the key number. NISSAN does not record key numbers so it is very important to keep track of your key number plate.

A key number is only necessary when you have lost all keys and do not have one to make a duplicate. If you still have a key, your NISSAN dealer can duplicate it.



Type B—Remote keyless entry keyfob (if so equipped)

1. Integrated door lock keyfob
2. Key number plate

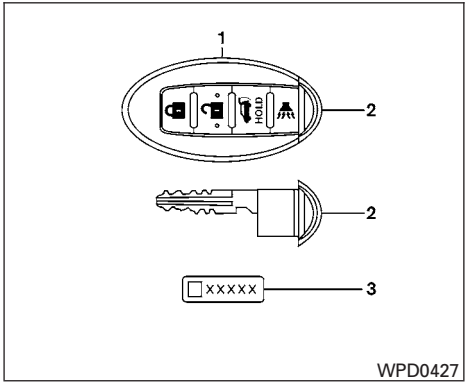
⚠CAUTION

Do not leave the ignition key inside the vehicle when you leave the vehicle.

Information Provided by:
DEALER E-PROCESS

A key number plate is supplied with your keys. Record the key number and keep it in a safe place (such as your wallet), not in the vehicle. If you lose your keys, see a NISSAN dealer for duplicates by using the key number. NISSAN does not record key numbers so it is very important to keep track of your key number plate.

A key number is only necessary when you have lost all keys and do not have one to duplicate from. If you still have a key, your NISSAN dealer can duplicate it.



1. Two Intelligent Keys
2. Mechanical keys (inside Intelligent Keys)
3. Key number plate

NISSAN INTELLIGENT KEY® (if so equipped)

Your vehicle can only be driven with the Intelligent Keys which are registered to your vehicle's Intelligent Key system components and NISSAN Vehicle Immobilizer System components.

Never leave these keys in the vehicle.

As many as 4 Intelligent Keys can be registered and used with one vehicle. The new keys must be registered by a NISSAN dealer prior to use with the Intelligent Key system and NISSAN Vehicle Immobilizer System of your vehicle. Since the registration process requires erasing all memory in the Intelligent Key components when registering new keys, be sure to take all Intelligent Keys that you have to the NISSAN dealer.

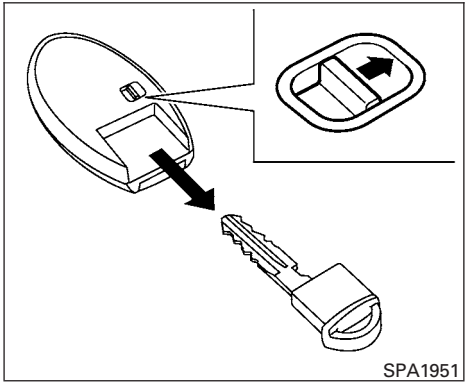
⚠CAUTION

Listed below are conditions or occurrences which will damage the Intelligent Key:

- **Do not allow the Intelligent Key, which contains electrical components, to come into contact with water or salt water. This could affect the system function.**
- **Do not drop the Intelligent Key.**
- **Do not strike the Intelligent Key sharply against another object.**
- **Do not change or modify the Intelligent Key.**

Information Provided by:
DEALER E-PROCESS

- **Wetting may damage the Intelligent Key. If the Intelligent Key gets wet, immediately wipe until it is completely dry.**
- **Do not place the Intelligent Key for an extended period in an area where temperatures exceed 140°F (60°C).**
- **Do not attach the Intelligent Key with a key holder that contains a magnet.**
- **Do not place the Intelligent Key near equipment that produces a magnetic field, such as a TV, audio equipment and personal computers.**


SPA1951

Mechanical key

The Intelligent Key contains the mechanical key.

To remove the mechanical key, release the lock knob on the back of the Intelligent Key.

To install the mechanical key, firmly insert it into the Intelligent Key until the lock knob returns to the lock position.

Use the mechanical key to lock or unlock the doors and trunk lid.

See “Doors” and “Trunk lid” later in this section.

⚠CAUTION

Always carry the mechanical key installed in the Intelligent Key slot.

NISSAN VEHICLE IMMOBILIZER SYSTEM KEYS

You can only drive your vehicle using the master keys which are registered to the NISSAN Vehicle Immobilizer System components in your vehicle. These keys have a transponder chip in the key head.

The master key can be used for all the locks.

Never leave these keys in the vehicle.

Additional or replacement keys:

If you still have a key, the key number is not necessary when you need extra NISSAN Vehicle Immobilizer System keys. Your dealer can duplicate your existing key. As many as 5 NISSAN Vehicle Immobilizer System keys can be used with one vehicle. You should bring all NISSAN Vehicle Immobilizer System keys that you have to your NISSAN dealer for registration. This is because the registration process will erase the memory of all key codes previously registered into the NISSAN Vehicle Immobilizer System. After the registration process, these components will only recognize keys coded into the NISSAN

Information Provided by: DEALER E-PROCESS

Vehicle Immobilizer System during registration. Any key that is not given to your dealer at the time of registration will no longer be able to start your vehicle.

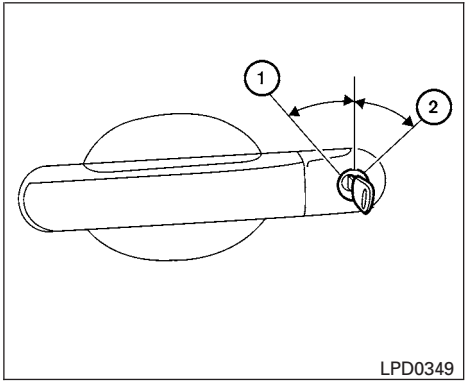
⚠ CAUTION

Do not allow the immobilizer system key, which contains an electrical transponder, to come into contact with water or salt water. This could affect system function.

When the doors are locked using one of the following methods, the doors can not be opened using the inside or outside door handles. The doors must be unlocked to open the doors.

⚠ WARNING

- **Always have the doors locked while driving. Along with the use of seat belts, this provides greater safety in the event of an accident by helping to prevent persons from being thrown from the vehicle. This also helps keep children and others from unintentionally opening the doors, and will help keep out intruders.**
- **Before opening any door, always look for and avoid oncoming traffic.**
- **Do not leave children unattended inside the vehicle. They could unknowingly activate switches or controls. Unattended children could become involved in serious accidents.**



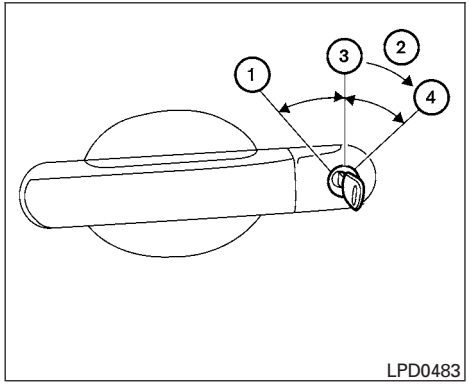
Driver's side

LOCKING WITH KEY

Manual (if so equipped)

To lock a door, turn the key toward the front of the vehicle ①. To unlock, turn the key toward the rear ②.

Information Provided by:
DEALER E-PROCESS

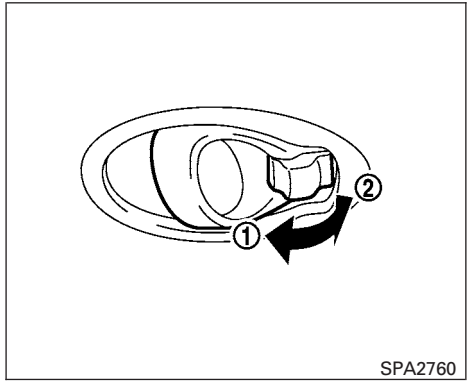


Power (if so equipped)

The power door lock system allows you to lock or unlock all doors at the same time.

Turning the key toward the front ① of the vehicle locks all doors.

Turning the key one time toward the rear ② of the vehicle unlocks that door. From that position, returning the key to neutral ③ (where the key can only be removed and inserted) and turning it toward the rear again within 5 seconds unlocks all doors ④.

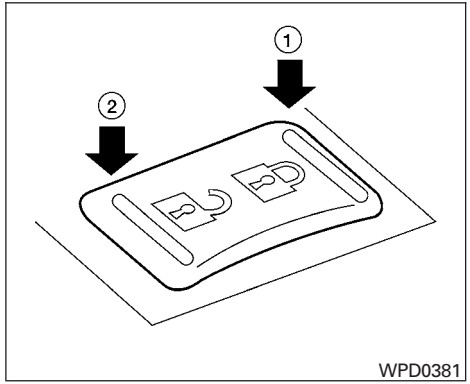


Inside lock

LOCKING WITH INSIDE LOCK KNOB

To lock the door without the key, move the inside lock knob to the lock position ①, then close the door.

To unlock the door without the key, move the inside lock knob to the unlock position ②.



LOCKING WITH POWER DOOR LOCK SWITCH (if so equipped)

To lock all the doors without a key, push the door lock switch (driver's or front passenger's side) to the lock position ①. When locking the door this way, be certain not to leave the key inside the vehicle.

To unlock all the doors without a key, push the door lock switch (driver's or front passenger's side) to the unlock position ②.

Information Provided by:
DEALER E-PROCESS

Lockout protection

When the power door lock switch (driver's or front passenger's side) is moved to the lock position with the key in the ignition switch and any door open, all doors will lock and then unlock automatically. This helps to prevent the keys from being accidently locked inside the vehicle.

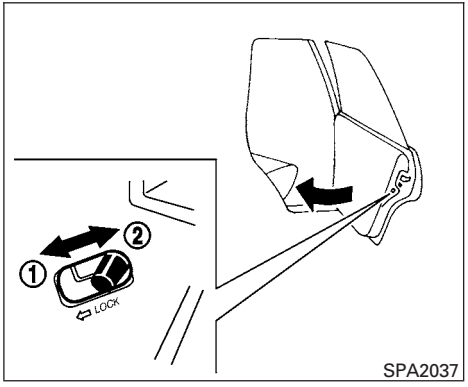
AUTOMATIC DOOR LOCKS (if so equipped)

- All doors lock automatically when the vehicle speed reaches 15 MPH (24 km/h).
- All doors unlock automatically when the key is removed from the ignition switch.

The automatic unlock function can be deactivated or activated. To deactivate or activate the automatic door unlock system, perform the following procedure:

1. Close all doors.
2. Place the ignition switch in the ON position.
3. Within 20 seconds of performing Step 2, push and hold the power door lock switch to the position (UNLOCK) for more than 5 seconds.
4. When activated, the hazard indicator will flash twice. When deactivated, the hazard indicator will flash once.
5. The ignition switch must be placed in the OFF and ON position again between each setting change.

When the automatic door unlock system is deactivated, the doors do not unlock when the key is removed from the ignition switch. To unlock the door manually, use the inside lock knob or the power door lock switch (driver's or front passenger's side).



CHILD SAFETY REAR DOOR LOCK

Child safety locks help prevent the rear doors from being opened accidentally, especially when small children are in the vehicle.

The child safety lock levers are located on the edge of the rear doors.

When the lever is in the unlock position ②, the door can be opened from the outside or the inside.

When the lever is in the LOCK position ①, the door can be opened only from the outside.

Information Provided by:
DEALER E-PROCESS

⚠WARNING

- **Radio waves could adversely affect electric medical equipment. Those who use a pacemaker should contact the electric medical equipment manufacturer for the possible influences before use.**
- **The remote keyless entry keyfob transmits radio waves when the buttons are pressed. The FAA advises radio waves may affect aircraft navigation and communication systems. Do not operate the remote keyless entry keyfob while on an airplane. Make sure the buttons are not operated unintentionally when the unit is stored for a flight.**

It is possible to lock/unlock all doors, turn the interior lights on, and activate the panic alarm by using the keyfob from outside the vehicle.

Be sure to remove the key from the vehicle before locking the doors.

The keyfob can operate at a distance of approximately 33 ft (10 m) from the vehicle. The effective distance depends on the conditions around the vehicle.

As many as 5 keyfobs can be used with one vehicle. For information concerning the purchase and use of additional keyfobs, contact a NISSAN dealer.

The keyfob will not function when:

- the battery is discharged
- the distance between the vehicle and the keyfob is over 33 ft (10 m)

The panic alarm will not activate when the key is in the ignition switch.

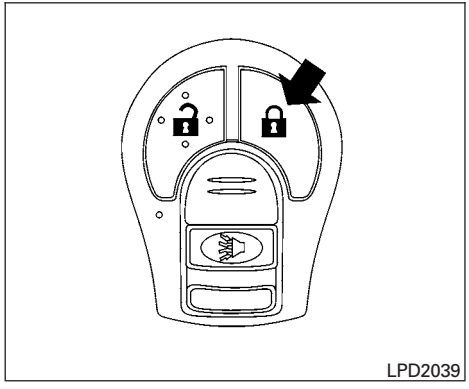
⚠CAUTION

Listed below are conditions or occurrences which will damage the keyfob:

- **Do not allow the keyfob, which contains electrical components, to come into contact with water or salt water. This could affect the system function.**
- **Do not drop the keyfob.**
- **Do not strike the keyfob sharply against another object.**
- **Do not change or modify the keyfob.**
- **Wetting may damage the keyfob. If the keyfob gets wet, immediately wipe until it is completely dry.**
- **Do not place the keyfob for an extended period in an area where temperatures exceed 140°F (60°C).**
- **Do not attach the keyfob with a key holder that contains a magnet.**
- **Do not place the keyfob near equipment that produces a magnetic field, such as a TV, audio equipment and personal computers.**

If a keyfob is lost or stolen, NISSAN recommends erasing the ID code of that keyfob. This will prevent the keyfob from unauthorized use to unlock the vehicle. For information regarding the erasing procedure, please contact a NISSAN dealer.

Information Provided by:
DEALER E-PROCESS

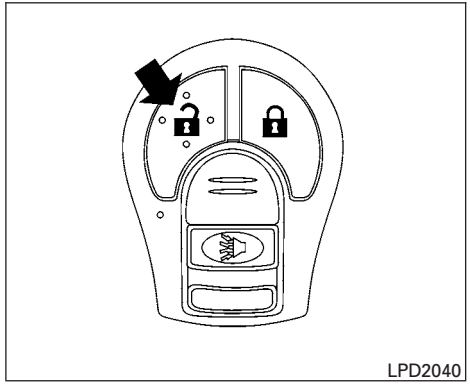

LPD2039

HOW TO USE REMOTE KEYLESS ENTRY SYSTEM

Locking doors

1. Close all windows.
2. Remove the key from the ignition switch.
3. Close all doors.
4. Press the button on the keyfob. All the doors lock. The hazard warning lights flash twice and the horn beeps once to indicate all doors are locked.
   - When the button is pressed with all doors locked, the hazard warning lights flash twice and the horn beeps once as a reminder that the doors are already locked.
   - If a door is open and you press the button, the doors will lock but the horn will not beep and the hazard lights will not flash.

The horn may or may not beep. Refer to “Silencing the horn beep feature” later in this section for details.


LPD2040

Unlocking doors

Press the button on the keyfob once.

- Only the driver’s door unlocks.
- The hazard warning lights flash once if all doors are completely closed with the ignition switch in any position except the ON position.
- The interior light turns on and the light timer activates for a period of time when the interior light switch is in the DOOR position with the ignition switch in any position except the ON position.

Information Provided by:
DEALER E-PROCESS

Press the button on the keyfob again within 5 seconds.

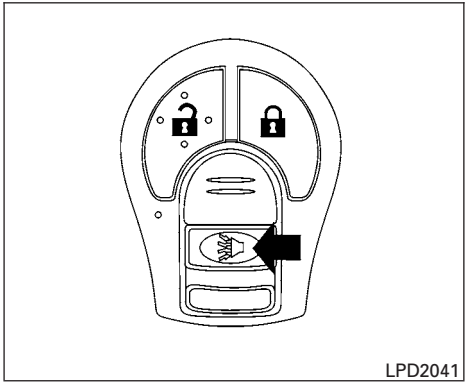
- All doors unlock.
- The hazard warning lights flash once if all doors are completely closed.

The interior lights can be turned off without waiting by inserting the key into the ignition switch and placing the ignition switch in the ON or START position, locking the doors with the keyfob or pushing the interior light switch to the OFF position.

Auto relock

When the button on the keyfob is pressed, all doors will lock automatically within 1 minute unless one of the following operations is performed:

- Any door is opened.
- A key is inserted into the ignition switch and the switch is cycled from OFF to ON.


LPD2041

Using the panic alarm

If you are near your vehicle and feel threatened, you may activate the panic alarm to call attention by pressing and holding the button on the keyfob for **longer than 0.5 seconds.**

The panic alarm and headlights will stay on for a period of time.

The panic alarm stops when:

- it has run for a period of time, or
- any button is pressed on the keyfob.

Using the interior light

Press the button on the keyfob once to turn on the interior lights.

For additional information, refer to “Interior light” in the “Instruments and controls” section in this manual.

Information Provided by:
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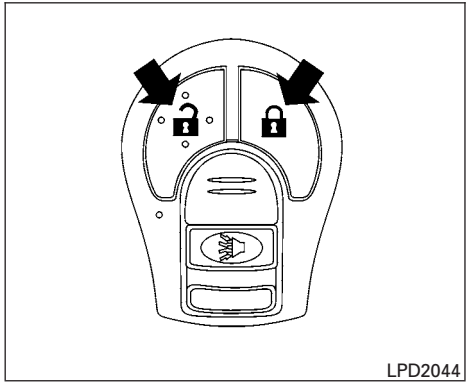

LPD2044

Silencing the horn beep feature

If desired, the horn beep feature can be deactivated using the keyfob.

To deactivate: Press and hold the and buttons **for at least 2 seconds.**

The hazard warning lights will flash three times to confirm that the horn beep feature has been deactivated.

To activate: Press and hold the and buttons **for at least 2 seconds once more.**

The hazard warning lights will flash once and the horn will sound once to confirm that the horn beep feature has been reactivated.

Deactivating the horn beep feature does not silence the horn if the alarm is triggered.

⚠WARNING

- **Radio waves could adversely affect electric medical equipment. Those who use a pacemaker should contact the electric medical equipment manufacturer for the possible influences before use.**
- **The Intelligent Key transmits radio waves when the buttons are pressed. The FAA advises the radio waves may affect aircraft navigation and communication systems. Do not operate the Intelligent Key while on an airplane. Make sure the buttons are not operated unintentionally when the unit is stored for a flight.**

The Intelligent Key can operate all the door locks using the remote controller function or pushing the request switch on the vehicle without taking the key out from a pocket or purse. The operating environment and/or conditions may affect the Intelligent Key operation.

Be sure to read the following before using the Intelligent Key.

Information Provided by: DEALER E-PROCESS

⚠ CAUTION

- **Be sure to carry the Intelligent Key with you when operating the vehicle.**
- **Never leave the Intelligent Key in the vehicle when you leave the vehicle.**

The Intelligent Key is always communicating with the vehicle as it receives radio waves. The Intelligent Key transmits weak radio waves. Environmental conditions may interfere with the operation of the Intelligent Key under the following operating conditions:

- When operating near a location where strong radio waves are transmitted, such as a TV tower, power station and broadcasting station.
- When in possession of wireless equipment, such as a cellular telephone, transceiver, and CB radio.
- When the Intelligent Key is in contact with or covered by metallic materials.
- When any type of radio wave remote control is used nearby.
- When the Intelligent Key is placed near an electric appliance such as a personal computer.
- When the vehicle is parked near a parking meter.

In such cases, correct the operating conditions before using the Intelligent Key function or use the mechanical key.

Although the life of the battery varies depending on the operating conditions, the battery's life is approximately 2 years. If the battery is discharged, replace it with a new one.

When the Intelligent Key battery is low, the Intelligent Key system warning light (KEY) will blink green for about 30 seconds after the ignition switch is placed in the ON position.

Since the Intelligent Key is continuously receiving radio waves, if the key is left near equipment which transmits strong radio waves, such as signals from a TV and personal computer, the battery life may become shorter.

When the battery is discharged, firmly apply the foot brake and touch the ignition switch with the Intelligent Key. Then push the ignition switch while depressing the brake pedal within 10 seconds after the chime sound. For more information, see "Push-button ignition switch" in the "Starting and driving" section.

For information regarding replacement of a battery, see "Battery replacement" in the "Maintenance and do-it-yourself" section.

As many as 4 Intelligent Keys can be registered and used with one vehicle. For information about the purchase and use of additional Intelligent Keys, contact a NISSAN dealer.

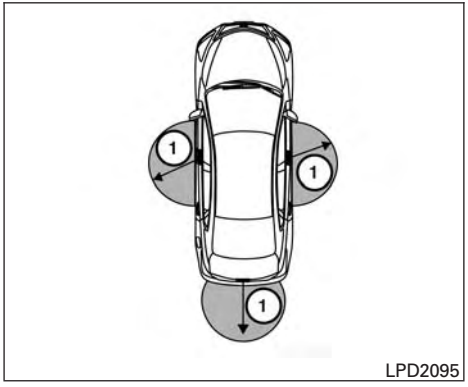
⚠ CAUTION

Listed below are conditions or occurrences which will damage the Intelligent Key:

- **Do not allow the Intelligent Key, which contains electrical components, to come into contact with water or salt water. This could affect the system function.**
- **Do not drop the Intelligent Key.**
- **Do not strike the Intelligent Key sharply against another object.**
- **Do not change or modify the Intelligent Key.**
- **Wetting may damage the Intelligent Key. If the Intelligent Key gets wet, immediately wipe until it is completely dry.**
- **If the outside temperature is below 14°F (-10°C) the battery of the Intelligent Key may not function properly.**

- **Do not place the Intelligent Key for an extended period in an area where temperatures exceed 140°F (60°C).**
- **Do not attach the Intelligent Key with a key holder that contains a magnet.**
- **Do not place the Intelligent Key near equipment that produces a magnetic field, such as a TV, audio equipment and personal computers.**

If an Intelligent Key is lost or stolen, NISSAN recommends erasing the ID code of that Intelligent Key from the vehicle. This may prevent the unauthorized use of the Intelligent Key to operate the vehicle. For information regarding the erasing procedure, contact a NISSAN dealer.



LPD2095

OPERATING RANGE

The Intelligent Key functions can only be used when the Intelligent Key is within the specified operating range from the request switch ①.

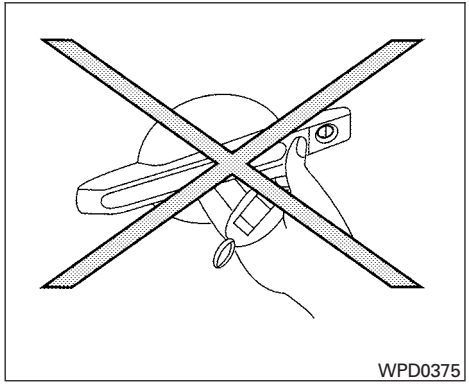
When the Intelligent Key battery is discharged or strong radio waves are present near the operating location, the Intelligent Key operating range becomes narrower, and the Intelligent Key may not function properly.

The operating range is within 31.50 in (80 cm) from each request switch ①.

If the Intelligent Key is too close to the door glass, handle or rear bumper, the request switches may not function.

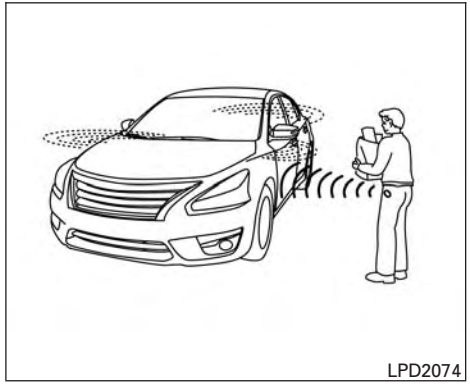
When the Intelligent Key is within the operating range, it is possible for anyone, even someone who does not carry the Intelligent Key, to push the request switch to lock/unlock the doors.

Information Provided by:
DEALER E-PROCESS


WPD0375

DOOR LOCKS/UNLOCKS PRECAUTION

- Do not push the door handle request switch with the Intelligent Key held in your hand as illustrated. The close distance to the door handle will cause the Intelligent Key system to have difficulty recognizing that the Intelligent Key is outside the vehicle.
- After locking with the door handle request switch, verify the doors are securely locked by testing them.
- To prevent the Intelligent Key from being left inside the vehicle, make sure you carry the Intelligent Key with you and then lock the doors.
- Do not pull the door handle before pushing the door handle request switch. The door will be unlocked but will not open. Release the door handle once and pull it again to open the door.

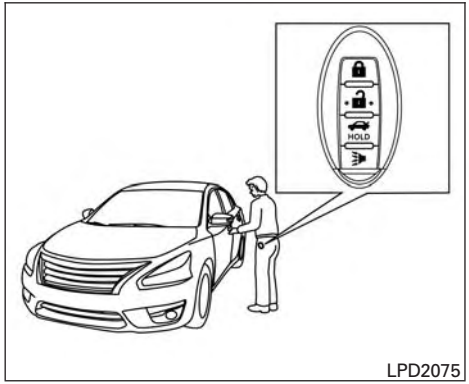

LPD2074

NISSAN INTELLIGENT KEY® OPERATION

You can lock or unlock the doors without taking the Intelligent Key out of your pocket or bag.

When you carry the Intelligent Key with you, you can lock or unlock all doors by pushing the door handle request switch within the range of operation.

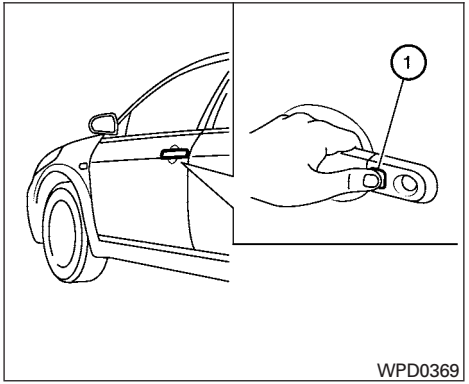
Information Provided by:
DEALER E-PROCESS



LPD2075

Locking doors

1. Move the shift selector to the P (Park) position, place the ignition switch in the LOCK position and make sure you carry the Intelligent Key with you.
2. Close all doors.
3. Push any door handle request switch ① while carrying the Intelligent Key with you.
4. All doors will lock.
5. The hazard warning lights flash twice and the outside buzzer sounds twice.



WPD0369

NOTE:

- Doors lock with the door handle request switch while the ignition switch is not in the LOCK position.
- Doors do not lock by pushing the door handle request switch while any door is open. However, doors lock with the mechanical key even if any door is open.
- Doors do not lock with the door handle request switch with the Intelligent Key inside the vehicle and a beep sounds to warn you. However, when an Intelligent Key is inside the vehicle, doors can be locked with another Intelligent Key.

⚠CAUTION

- **After locking the doors using the request switch, make sure that the doors have been securely locked by operating the door handle .**
- **When locking the doors using the request switch, make sure to have the Intelligent Key in your possession before operating the request switch to prevent the Intelligent Key from being left in the vehicle.**
- **The request switch is operational only when the Intelligent Key has been detected by the Intelligent Key system.**

Lockout protection

To prevent the Intelligent Key from being accidentally locked in the vehicle, lockout protection is equipped with the Intelligent Key.

When the driver's side door is open, the doors are locked, and then the Intelligent Key is put inside the vehicle and all the doors are closed; the lock will automatically unlock and the door buzzer sounds.

Information Provided by:
DEALER E-PROCESS

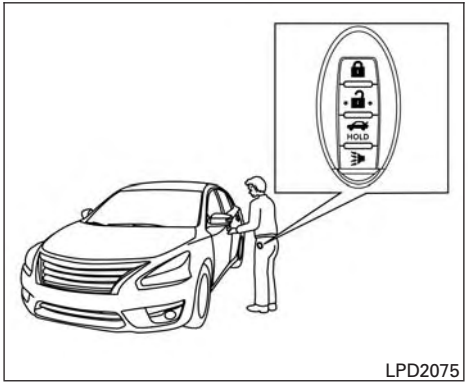
NOTE:

The doors may not lock when the Intelligent Key is in the same hand that is operating the request switch to lock the door. Put the Intelligent Key in a purse, pocket or your other hand.

⚠ CAUTION

The lockout protection may not function under the following conditions:

- **When the Intelligent Key is placed on top of the instrument panel.**
- **When the Intelligent Key is placed on top of the rear parcel shelf.**
- **When the Intelligent Key is placed inside the glove box or a storage bin.**
- **When the Intelligent Key is placed inside the door pockets.**
- **When the Intelligent Key is placed on or under the spare tire area.**
- **When the Intelligent Key is placed inside or near metallic materials.**

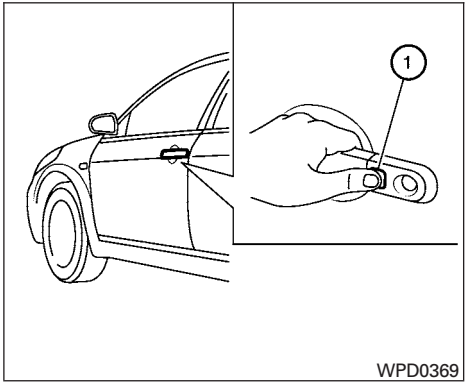


LPD2075

Unlocking doors

1. Carry the Intelligent Key.
2. Push the door handle request switch ①.
3. The hazard warning lights flash once and the outside buzzer sounds once.
4. Push the door handle request switch ① again within 5 seconds to unlock all doors.

If a door handle is pulled while unlocking the doors, that door may not be unlocked. Returning the door handle to its original position will unlock the door. If the door does not unlock after returning the door handle, push the door handle request switch to unlock the door.



WPD0369

All doors will be locked automatically unless one of the following operations is performed within 1 minute after pushing the request switch.

- Opening any door.
- Pushing the ignition switch.

The interior light timer illuminates for a period of time when a door is unlocked and the room light switch is in the DOOR position.

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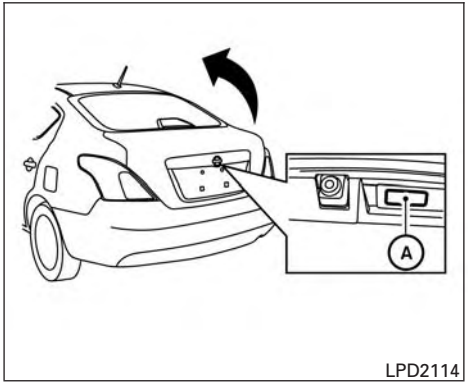
The interior light can be turned off without waiting by performing one of the following operations.

- Placing the ignition switch in the ON position.
- Locking the doors with the remote controller.
- Switching the room light switch to the OFF position.



LPD2114

Opening the trunk lid

1. Push the trunk opener request switch Ⓐ for more than 1 second while carrying the Intelligent Key with you.
2. The trunk will unlatch. A chime will sound 4 times.
3. Raise the trunk lid to open the trunk.

Lockout protection

To prevent the Intelligent Key from being accidentally locked in the trunk, lockout protection is equipped with the Intelligent Key.

When all doors are locked and the trunk lid is closed with the Intelligent Key inside the trunk, the outside buzzer will sound and the trunk will open.

HOW TO USE THE REMOTE KEYLESS ENTRY FUNCTION

The remote keyless entry function can operate all door locks using the remote keyless function of the Intelligent Key. The remote keyless function can operate at a distance of 33 ft (10 m) away from the vehicle. The operating distance depends upon the conditions around the vehicle.

The remote keyless entry function will not function under the following conditions:

- When the Intelligent Key is not within the operational range.
- When the doors or the trunk are open or not closed securely.
- When the Intelligent Key battery is discharged.

⚠CAUTION

When locking the doors using the Intelligent Key, be sure not to leave the key in the vehicle.

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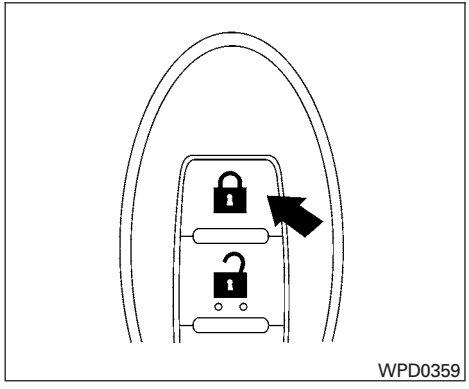
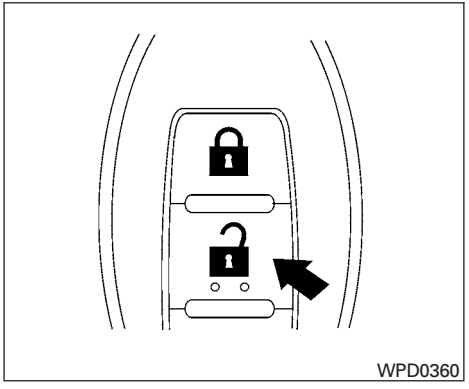


Locking doors

1. Place the ignition switch in the LOCK position.
2. Close all doors.
3. Press the button on the Intelligent Key.
4. The hazard warning lights flash twice and the horn beeps once.
5. All doors will be locked.

⚠ CAUTION

After locking the doors using the Intelligent Key, be sure that the doors have been securely locked by operating the door handles.



Unlocking doors

1. Press the button on the Intelligent Key.
2. The hazard warning lights flash once.
3. Press the button again within 5 seconds to unlock all doors.

All doors will be locked automatically unless one of the following operations is performed within 1 minute after pressing the button:

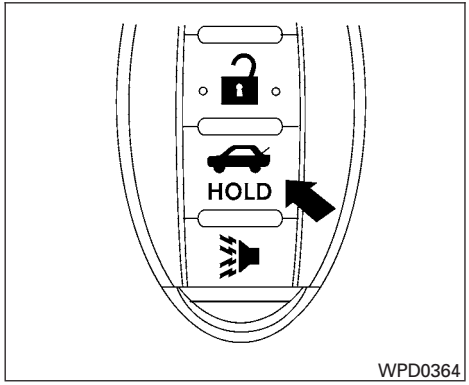
- Opening any doors.
- Pushing the ignition switch.

The interior light illuminates for a period of time when a door is unlocked and the room light switch is in the DOOR position.

The light can be turned off without waiting by performing one of the following operations:

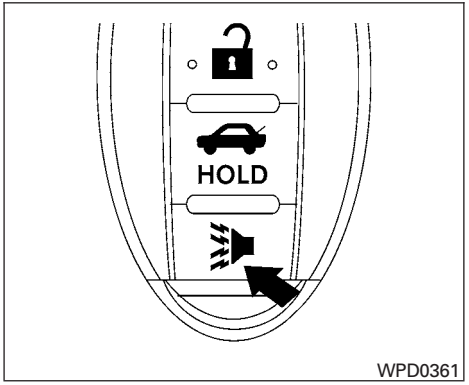
- Placing the ignition switch in the ON position.
- Locking the doors with the Intelligent Key.
- Switching the room light switch to the OFF position.

Information Provided by: DEALER E-PROCESS



Releasing the trunk lid

Press the HOLD button for longer than 0.5 seconds to open the trunk lid. The trunk release button will not operate when the ignition switch is placed in the ON position.



Using the panic alarm

If you are near your vehicle and feel threatened, you may activate the panic alarm to call attention by pressing and holding the button on the Intelligent Key for **longer than 0.5 seconds.**

The panic alarm and headlights will stay on for a period of time.

The panic alarm stops when:

- It has run for a period of time, or
- Any button is pressed on the Intelligent Key.
- The request switch on the driver or passenger door has been pushed and the Intelligent Key is in range of the door handle.

Information Provided by:
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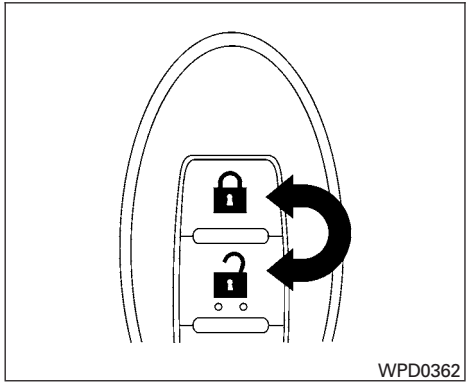


Silencing the horn beep feature

If desired, the horn beep feature can be deactivated using the Intelligent Key.

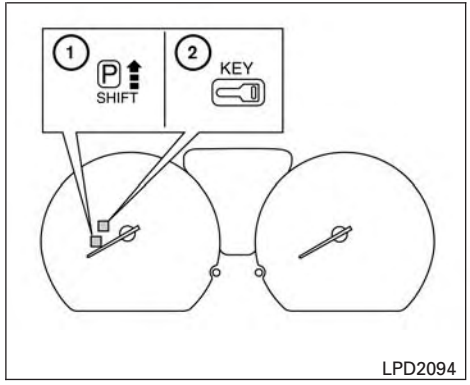
To deactivate: Press and hold the and buttons **for at least 2 seconds.**

The hazard warning lights will flash 3 times to confirm that the horn beep feature has been deactivated.

To activate: Press and hold the and buttons **for at least 2 seconds once more.**

The hazard warning lights will flash once and the horn will sound once to confirm that the horn beep feature has been reactivated.

Deactivating the horn beep feature does not silence the horn if the alarm is triggered.



Type B meter only

① P (Park) position selecting warning light
② NISSAN Intelligent Key® warning light

WARNING LIGHTS AND AUDIBLE REMINDERS

The Intelligent Key is equipped with a function that is designed to minimize improper operations and to help prevent the vehicle from being stolen. The warning buzzer sounds and the warning light illuminates when improper operations are detected.

Information Provided by:
DEALER E-PROCESS

⚠ CAUTION

When the buzzer sounds and the warning light illuminates, be sure to check both the vehicle and the Intelligent Key.

WARNING SIGNALS

To help prevent the vehicle from moving unexpectedly by erroneous operation of the Intelligent Key or to help prevent the vehicle from being stolen, a chime or buzzer sounds from inside and outside the vehicle and a warning light comes on in the instrument panel.

When a chime or beep sounds or the warning light comes on, be sure to check the vehicle and the Intelligent Key.

Audible reminder and warning when locking the doors

When the chime or buzzer sounds from inside and outside the vehicle, check for the following:

- The ignition switch is placed in the LOCK position.
- The Intelligent Key is not left inside the vehicle.
- The shift selector is in the P (Park) position.

Audible reminder and warning when the engine stops

When the P position selecting warning light (P SHIFT) in the instrument panel blinks in red:

- Make sure the shift selector is in the P (Park) position.

When the chime sounds intermittently:

- Make sure the shift selector is in the P (Park) position and the ignition switch is placed in the LOCK position.

If the chime sounds continuously when the driver's door is opened, check the following:

- The shift selector is placed in the P (Park) position and the ignition switch is placed in the LOCK position.
- The mechanical key is not inserted into the ignition switch.
- The warning chime may stop when one of the following is performed:
  - Returning the ignition switch to the LOCK position.
  - Removing the mechanical key.
  - Closing the doors.

Alarm and warning when the engine starts

When the Intelligent Key system warning light (KEY) blinks red and the outside buzzer sounds, make sure the Intelligent Key is inside the vehicle.

Warning for low battery power

When the Intelligent Key battery is low, the Intelligent Key system warning light (KEY) will blink green for about 30 seconds after the ignition switch is placed in the ON position. This warning is to let you know that the battery of the Intelligent Key will run down soon. Replace it with a new one. Refer to "Battery replacement" in the "Maintenance and do-it-yourself" section.

NISSAN recommends replacing the battery at a NISSAN dealer.

Preventing the Intelligent Key from being left in the vehicle

If you lock all doors using the power door lock switch with the Intelligent Key in the vehicle, all of the doors unlock immediately and the buzzer will warn you when the door is closed.

Information Provided by:
DEALER E-PROCESS

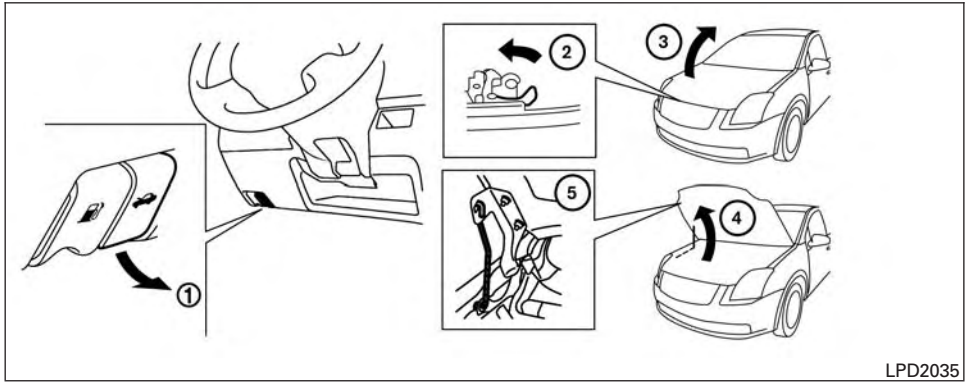
TROUBLESHOOTING GUIDE

Symptom		Possible Cause	Remedy
When pushing the ignition switch to stop the engine	The P (Park) warning light in the instrument panel illuminates and the inside chime sounds continuously.	The shift selector is not in the P (Park) position.	Make sure that the shift selector is in the P (Park) position.
When placing the shift selector in the P (Park) position	The inside warning chime sounds continuously.	The ignition switch is in the “ACC” or “ON” position.	Place the ignition switch in the “OFF” position.
When opening the driver’s door	A warning chime sounds continuously.	The ignition switch is in the “ACC” position.	Place the ignition switch in the “OFF” position.
When pushing the door handle request switch to lock the door	The outside chime sounds for approximately a few seconds.	The Intelligent Key is inside the vehicle.	Be sure to carry the Intelligent Key with you.
		A door is not closed securely.	Close the door securely.
When closing the doors	The key warning light in the instrument panel blinks in yellow, the outside chime sounds 3 times and the inside warning chime sounds for approximately 3 seconds.	The ignition switch is in the “ACC” or “ON” position.	Place the ignition switch in the “OFF” position.
	The P (Park) warning light in the instrument panel illuminates and the outside chime sounds continuously.	The ignition switch is in the “ACC” or “OFF” position and the shift selector is not in the P (Park) position.	Make sure that the shift selector is in the P (Park) position and place the ignition switch in the “OFF” position.
	The outside chime sounds for approximately 3 seconds and all doors unlock.	The Intelligent Key is in the vehicle or trunk.	Be sure to carry the Intelligent Key with you.
When opening the driver’s door	A warning chime sounds continuously.	The ignition switch is in the “ACC” position.	Place the ignition switch in the “OFF” position.
When closing the trunk lid	The outside chime sounds for approximately 10 seconds and the trunk lid opens.	The Intelligent Key is inside the trunk.	Be sure to carry the Intelligent Key with you.
When stopping the engine	The P (Park) position warning light in the instrument panel blinks in red.	The shift selector is not in the P (Park) position.	Make sure that the shift selector is in the P (Park) position and place the ignition switch in the LOCK position.

Information Provided by:
DEALER E-PROCESS

Symptom		Possible Cause	Remedy
When starting the engine	The key warning light in the instrument panel blinks in green.	The battery charge is low.	Replace the battery with a new one. See “Battery replacement” in the “Maintenance and do-it-yourself” section.
When pushing the request switch or the LOCK button on the Intelligent Key to the lock the door	The outside chime sounds for a few seconds and all the doors unlock.	The Intelligent Key is inside the trunk.	Be sure to carry the Intelligent Key with you.
		The Intelligent Key is inside the vehicle.	Be sure to carry the Intelligent Key with you.
		A door is not closed securely.	Close the doors securely.

Information Provided by:
DEALER E-PROCESS



1. Pull the hood lock release handle ① located below the instrument panel until the hood springs up slightly.
2. Locate the lever ② in between the hood and grille and push the lever sideways with your fingertips.
3. Raise the hood ③.
4. Remove the support rod ④ and insert it into the slot ⑤.

Hold the coated parts when removing or resetting the support rod. Avoid direct contact with the metal parts, as they may be hot immediately after the engine has been stopped.

When closing the hood, return the support rod to its original position, lower the hood to approximately 12 in (30 cm) above the latch and release it. This allows proper engagement of the hood latch.

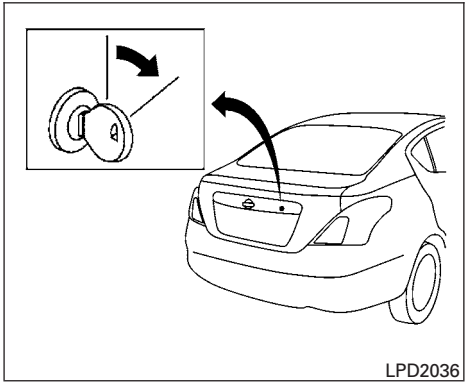
⚠WARNING

- **Make sure the hood is completely closed and latched before driving. Failure to do so could cause the hood to fly open and result in an accident.**
- **If you see steam or smoke coming from the engine compartment, to avoid injury do not open the hood.**

Information Provided by:
DEALER E-PROCESS

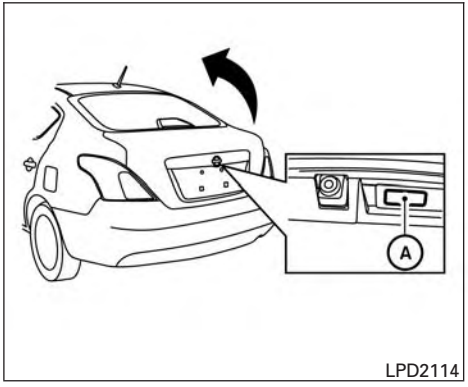
⚠WARNING

- **Do not drive with the trunk lid open. This could allow dangerous exhaust gases to be drawn into the vehicle. See “Exhaust gas” in the “Starting and driving” section of this manual.**
- **Closely supervise children when they are around cars to prevent them from playing and becoming locked in the trunk where they could be seriously injured. Keep the car locked, with the rear seatback and trunk lid securely latched when not in use, and prevent children’s access to car keys.**


LPD2036

KEY OPERATION

To open the trunk lid, turn the key clockwise. To close the trunk lid, lower and push the trunk lid down securely.



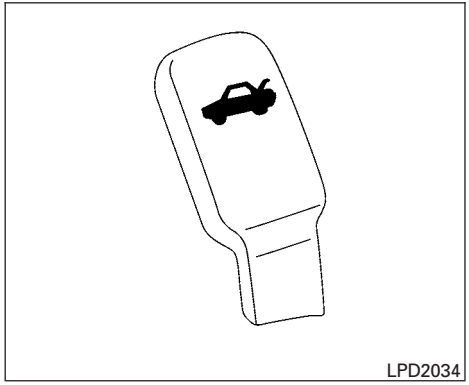
LPD2114

OPENING THE TRUNK LID

To open the trunk, unlock it with one of the following operations:

- Unlock the trunk using the key.
- Pull up on the opener lever (if so equipped) located on the floor next to the driver’s seat.
- Press the button on the Intelligent Key.
- Push the Ⓐ release switch.

Information Provided by:
DEALER E-PROCESS


LPD2034

OPENER OPERATION (if so equipped)

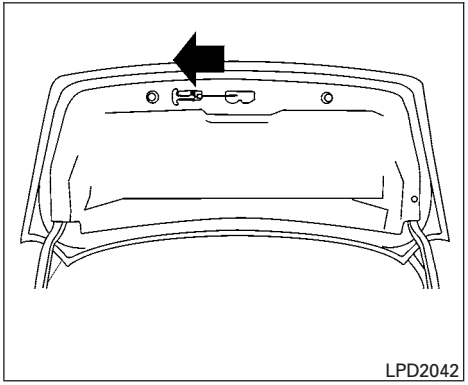
⚠ WARNING

- **Do not drive with the trunk lid open. This could allow dangerous exhaust gases to be drawn into the vehicle. See "Exhaust gas" in the "Starting and driving" section of this manual.**
- **Closely supervise children when they are around cars to prevent them from playing and becoming locked in the trunk where they could be seriously injured. Keep the car locked, with the rear seatback and trunk lid securely latched when not in use, and prevent children's access to car keys.**

The trunk lid release is located on the floor to the left of the driver's seat.

To open the trunk lid, pull the opener lever up.

To close the trunk lid, lower and push the trunk lid down securely.


LPD2042

INTERIOR TRUNK LID RELEASE

⚠ WARNING

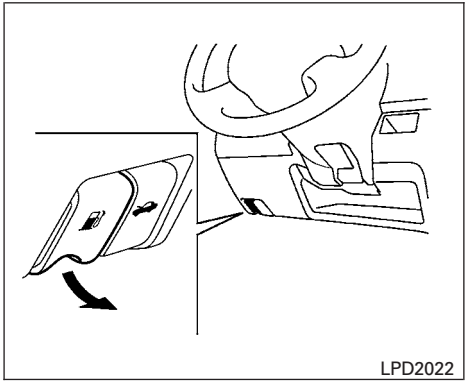
Closely supervise children when they are around cars to prevent them from playing and becoming locked in the trunk where they could be seriously injured. Keep the car locked, with the rear seatback and trunk lid securely latched when not in use, and prevent children's access to car keys.

The interior trunk lid release mechanism provides a means of escape for children and adults in the event they become locked inside the trunk.

Information Provided by: DEALER E-PROCESS

To open the trunk from the inside, pull the illuminated release handle until the lock releases and push up on the trunk lid. The release handle is made of a material that glows in the dark after a brief exposure to ambient light.

The handle is located inside the trunk compartment on the trunk lock at the center of the trunk lid.


LPD2022

OPENER OPERATION

The fuel-filler door release is located below the instrument panel. To open the fuel-filler door, pull the release. To lock, close the fuel-filler door securely.

FUEL-FILLER CAP

⚠WARNING

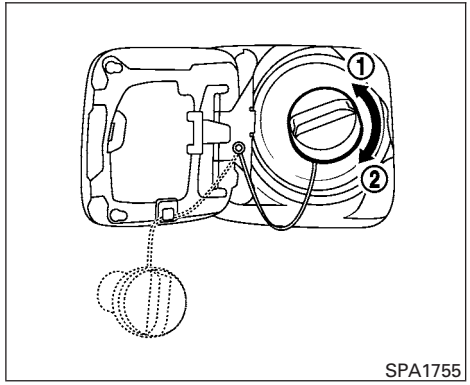
- **Gasoline is extremely flammable and highly explosive under certain conditions. You could be burned or seriously injured if it is misused or mishandled. Always stop the engine and do not smoke or allow open flames or sparks near the vehicle when refueling.**
- **Do not attempt to top off the fuel tank after the fuel pump nozzle shuts off automatically. Continued refueling may cause fuel overflow, resulting in fuel spray and possibly a fire.**
- **Use only an original equipment type fuel-filler cap as a replacement. It has a built-in safety valve needed for proper operation of the fuel system and emission control system. An incorrect cap can result in a serious malfunction and possible injury. It could also cause the Malfunction Indicator Light (MIL) to come on.**
- **Never pour fuel into the throttle body to attempt to start your vehicle.**

Information Provided by:
DEALER E-PROCESS

- **Do not fill a portable fuel container in the vehicle or trailer. Static electricity can cause an explosion of flammable liquid, vapor or gas in any vehicle or trailer. To reduce the risk of serious injury or death when filling portable fuel containers:**
  - **Always place the container on the ground when filling.**
  - **Do not use electronic devices when filling.**
  - **Keep the pump nozzle in contact with the container while you are filling it.**
  - **Use only approved portable fuel containers for flammable liquid.**

⚠ CAUTION

- **Do not use E-15 or E-85 fuel in your vehicle. For further information see the "Fuel Recommendation" in the "Technical and consumer information" section of this manual.**
- **Failure to tighten the fuel-filler cap properly may cause the Malfunction Indicator Light (MIL) to illuminate. If the light illuminates because the fuel-filler cap is loose or missing, tighten or install the cap and continue to drive the vehicle. The light should turn off after a few driving trips. If the light does not turn off after a few driving trips, have the vehicle inspected by a NISSAN dealer.**
- **The LOOSE FUEL CAP warning message will display if the fuel-filler cap is not properly tightened. It may take a few driving trips for the message to be displayed. Failure to tighten the fuel-filler cap properly after the LOOSE FUEL CAP warning message is displayed may cause the Malfunction Indicator Light (MIL) to illuminate.**
- **For additional information, see the "Malfunction Indicator Light (MIL)" in the "Instruments and Controls" section in this manual.**
- **If fuel is spilled on the vehicle body, flush it away with water to avoid paint damage.**



SPA1755

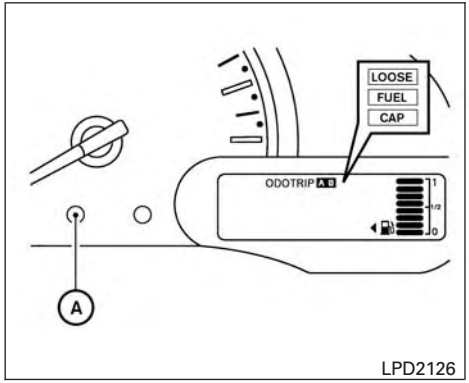
To remove the fuel-filler cap:

1. Turn the fuel-filler cap counterclockwise ① to remove.
2. Loop the tether strap around the hook while refueling.

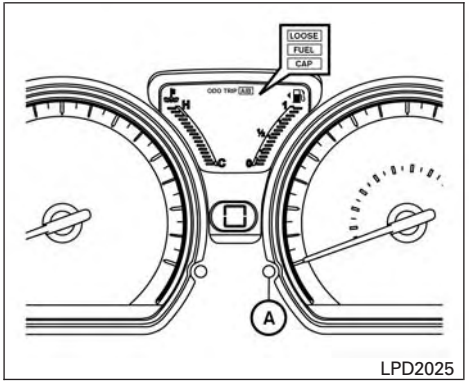
To install the fuel-filler cap:

1. Insert the fuel-filler cap straight into the fuel-filler tube.
2. Turn the fuel-filler cap clockwise ② until a single click is heard.

Information Provided by: DEALER E-PROCESS



Type A



Type B

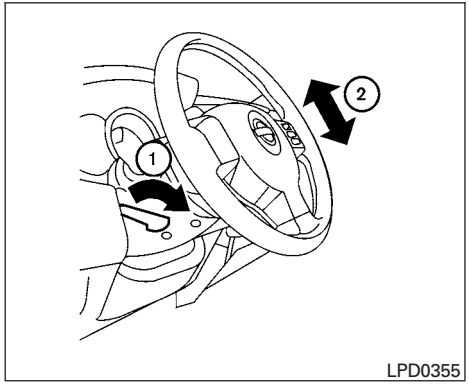
Loose Fuel Cap warning message

The LOOSE FUEL CAP warning message displays in the odometer when the fuel-filler cap is not tightened correctly after the vehicle has been refueled. It may take a few driving trips for the message to be displayed. To turn off the warning message, perform the following:

1. Remove and install the fuel-filler cap as previously described as soon as possible.
2. Tighten the fuel-filler cap until it clicks.
3. Press the loose fuel cap warning reset button Ⓐ in the meter for about 1 second to turn off the LOOSE FUEL CAP warning message after tightening the fuel-filler cap.

Information Provided by:
DEALER E-PROCESS

STEERING WHEEL



TILT OPERATION

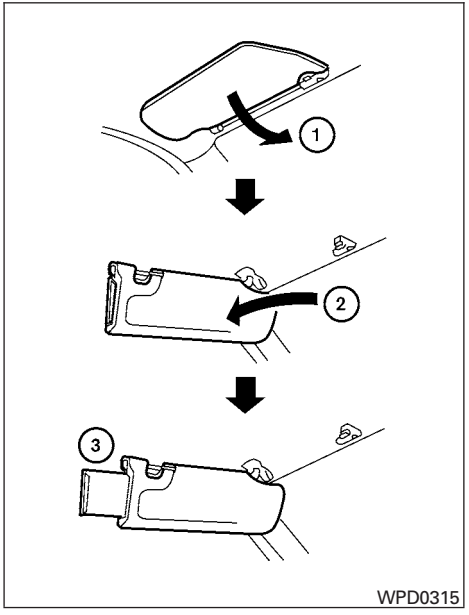
Push the lock lever ① down and adjust the steering wheel up or down ② to the desired position.

Pull the lock lever ① up to lock the steering wheel in place.

⚠WARNING

Do not adjust the steering wheel while driving. You could lose control of your vehicle and cause an accident.

SUN VISORS



① To block glare from the front, swing down the sun visor.

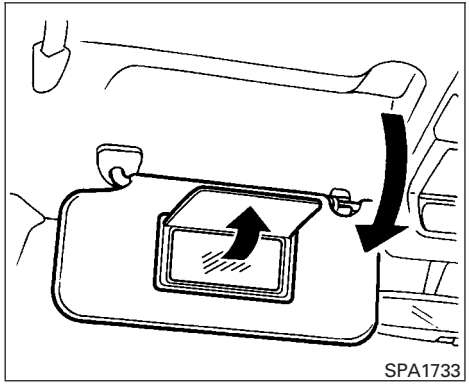
② To block glare from the side, remove the sun visor from the center mount and swing the visor to the side.

③ Slide the extension sun visor in or out as needed.

⚠CAUTION

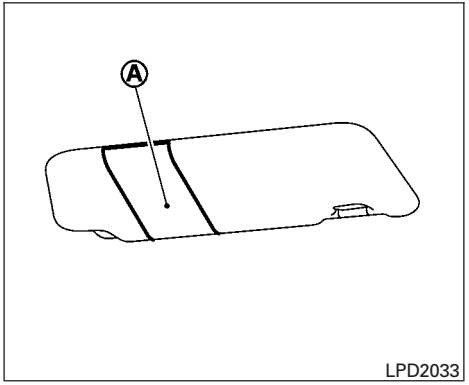
- **Do not store the sun visor before returning the extension to its original position.**
- **Do not pull the extension sun visor forcedly downward.**

Information Provided by:
DEALER E-PROCESS


SPA1733

VANITY MIRROR (if so equipped)

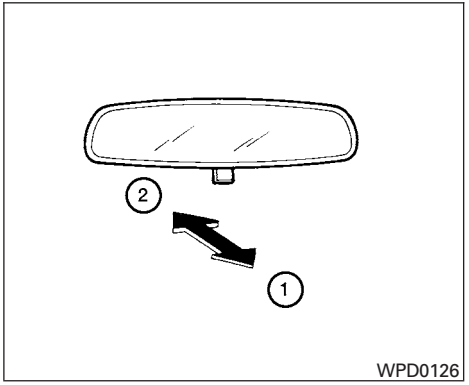
To access the vanity mirror, pull the sun visor down and flip open the mirror cover.



LPD2033

CARD HOLDER (driver's side only)

To access the card holder, pull the sun visor down and slide card in the card holder Ⓐ. Do not view information while operating the vehicle.



WPD0126

REARVIEW MIRROR

The night position ① reduces glare from the headlights of vehicles behind you at night.

Use the day position ② when driving in daylight hours.

⚠WARNING

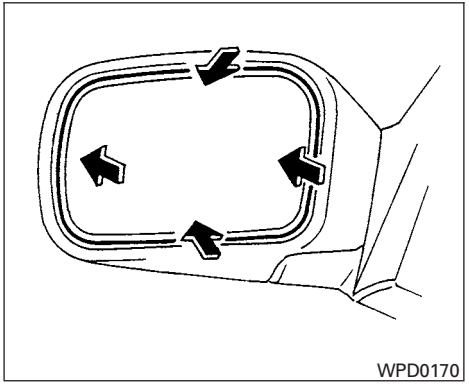
Use the night position only when necessary, because it reduces rear view clarity.

Information Provided by:
DEALER E-PROCESS

OUTSIDE MIRRORS

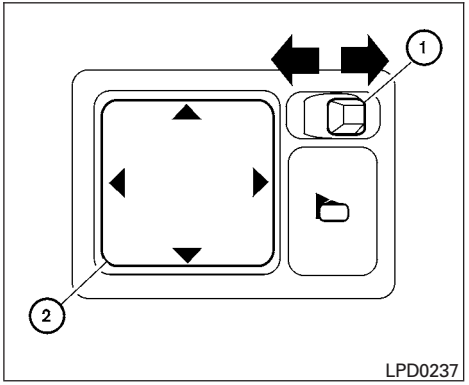
⚠ WARNING

- **Objects viewed in the outside mirror on the passenger side are closer than they appear. Be careful when moving to the right. Using only this mirror could cause an accident. Use the inside mirror or glance over your shoulder to properly judge distances to other objects.**
- **Do not adjust the mirrors while driving. You could lose control of your vehicle and cause an accident.**



Manual control type (if so equipped)

The outside mirror can be moved in any direction for a better rear view.

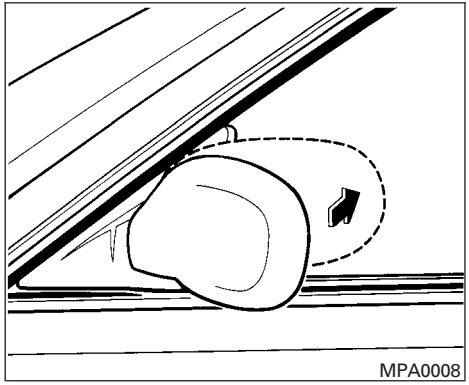


Electric control type (if so equipped)

The outside mirror remote control will operate only when the ignition switch is placed in the ACC or ON position.

Move the small switch ① to select the right or left mirror. Adjust each mirror to the desired position using the large switch ②.

Information Provided by:
DEALER E-PROCESS



Manual folding outside mirrors

Pull the outside mirror toward the door to fold it.

Heated mirrors (Canada only)

Some outside mirrors can be heated to defrost, defog, or de-ice for improved visibility. Push the rear window defroster switch to activate the heating function. Push the switch again to deactivate, or the heating function will automatically turn off after approximately 15 minutes.

Information Provided by:
DEALER E-PROCESS

4 Display screen, heater, air conditioner, audio and phone systems

Control panel buttons — color screen with Navigation System (if so equipped) 4-2
- How to use the touch screen 4-3
- How to use the BACK button 4-5
- How to use the SETUP button 4-5
- ☼/☽ button 4-8

RearView Monitor (if so equipped) 4-8
- How to read the displayed lines 4-9
- Difference between predicted and actual distances 4-9
- Adjusting the screen 4-12
- Operating tips 4-12

Vents 4-13

Heater and air conditioner (manual) (if so equipped) 4-14
- Controls 4-14
- Heater operation 4-15
- Air conditioner operation (if so equipped) 4-16
- Air flow charts 4-17

Servicing air conditioner (if so equipped) 4-21

Audio system 4-21
- Radio 4-21
- FM radio reception 4-21
- AM radio reception 4-22
- Satellite radio reception (if so equipped) 4-22
- Audio operation precautions 4-22
- FM/AM radio with compact disc (CD) player (Type A) (if so equipped) 4-31
- FM/AM radio with compact disc (CD) player (Type B) (if so equipped) 4-34
- FM/AM/SAT radio with compact disc (CD) player (if so equipped) 4-38
- USB interface (models with Navigation System) 4-44
- iPod®* player operation without Navigation System (if so equipped) 4-46
- iPod®* player operation with Navigation System (if so equipped) 4-49
- CD care and cleaning 4-51
- Steering wheel switch for audio control (if so equipped) 4-52
- Antenna 4-52

Car phone or CB radio 4-53

Bluetooth® Hands-Free Phone System (if so equipped) 4-54
- Regulatory Information 4-55
- Using the system 4-56

Information Protected

Control buttons 4-58
Getting started 4-58
List of voice commands 4-60
Voice Adaptation (VA) mode 4-64
Manual control 4-65
Troubleshooting guide 4-67

Information Provided by:
DEALER E-PROCESS

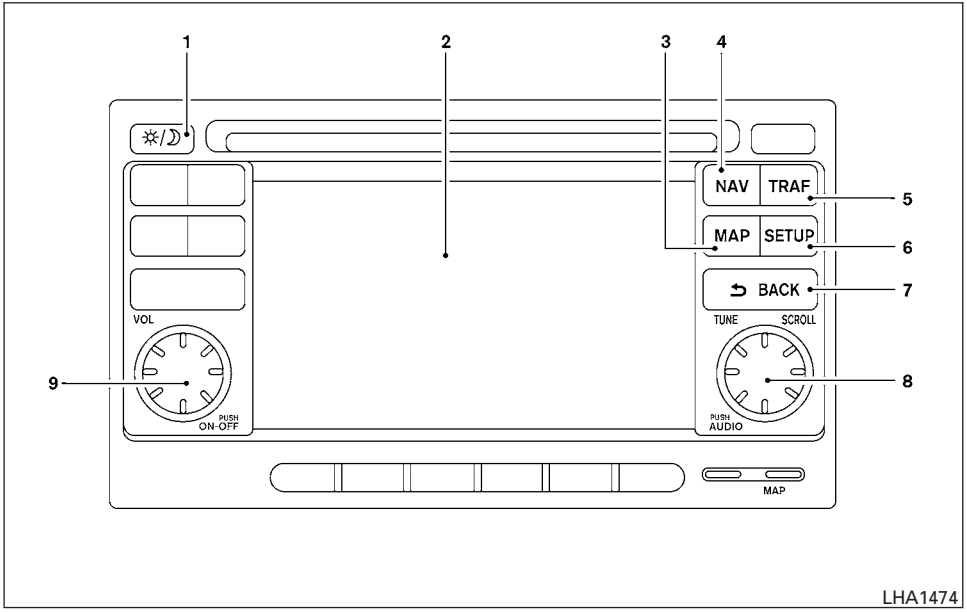
CONTROL PANEL BUTTONS — COLOR SCREEN WITH NAVIGATION SYSTEM (if so equipped)

⚠ WARNING

- **Do not disassemble or modify this system. If you do, it may result in accidents, fire, or electrical shock.**
- **In case you notice any foreign object in the system hardware, spill liquid on it, or notice smoke or smell coming from it, stop using the system immediately and contact your nearest NISSAN dealer. Ignoring such conditions may lead to accidents, fire or electrical shock.**

⚠ CAUTION

Do not use this system if you notice any abnormality, such as a frozen screen or lack of sound. Continued use of the system may result in accident, fire or electric shock.



1. ☼/☽ (brightness control) button
2. Display screen
3. MAP button*
4. NAV button*
5. TRAF button*
6. SETUP button (P. 4-5)
7. ⮌ BACK button
8. TUNE/SCROLL knob

Information Provided by: DEALER

9. Power button/Volume control knob

*For Navigation system control buttons, refer to the separate Navigation System Owner's Manual.

When you use this system, make sure the engine is running.

If you use the system with the engine not running (ignition ON or ACC) for a long time, it will discharge the battery, and the engine will not start.

Reference symbols:

"Example" — Words marked in quotes refer to a key shown only on the display. These keys can be selected by touching the screen.

HOW TO USE THE TOUCH SCREEN

⚠ CAUTION

- **The glass display screen may break if it is hit with a hard or sharp object. If the glass screen breaks, do not touch it. Doing so could result in an injury.**
- **To clean the display, never use a rough cloth, alcohol, benzine, thinner or any kind of solvent or paper towel with a chemical cleaning agent. They will scratch or deteriorate the panel.**
- **Do not splash any liquid such as water or car fragrance on the display. Contact with liquid will cause the system to malfunction.**

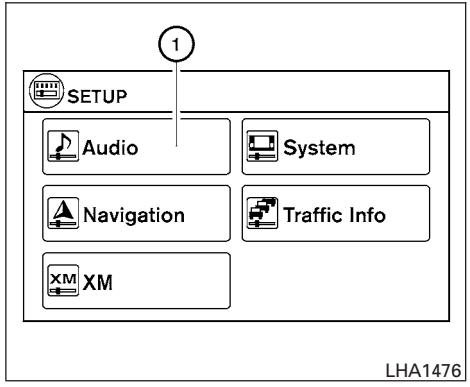
To help ensure safe driving, some functions cannot be operated while driving.

The on-screen functions that are not available while driving will be "grayed out" or muted.

Park the vehicle in a safe location and then operate the navigation system.

⚠ WARNING

- **ALWAYS give your full attention to driving.**
- **Avoid using vehicle features that could distract you. If distracted, you could lose control of your vehicle and cause an accident.**

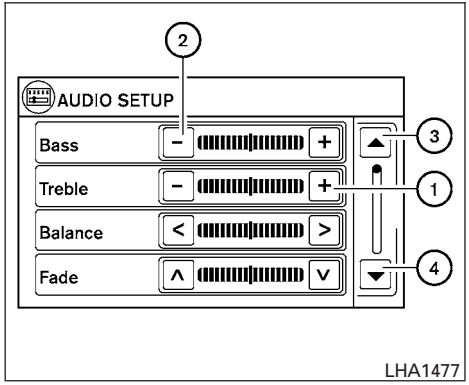


Touch screen operation

Selecting the item:

Touch an item to select. For example, to select the "Audio" key, touch the "Audio" key ① on the screen.

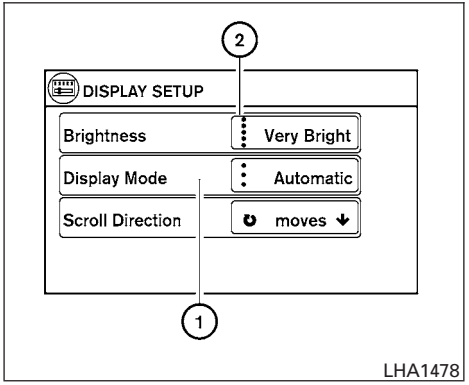
Information Provided by:
DEALER



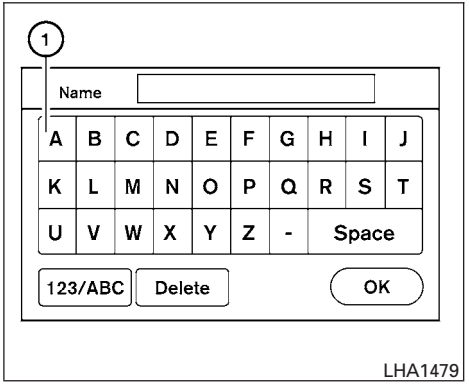
Adjusting the item:

For screens where an item can be adjusted incrementally, such as when adjusting the bass and treble for the audio system, touch the “+” key ① or the “−” key ② to adjust the settings of an item.

When there are more items than can be displayed on one screen, touch the up arrow ③ to scroll up the page or touch the down arrow ④ to scroll down the page.



Other items are adjusted by selecting one of a set number of conditions. For example, the Display Mode can be set to “Automatic”, “Day” or “Night”. To adjust this type of item, touch the item ①. The item will cycle through the available settings and the red indicator lights to the left of the setting condition ② will come on or turn off accordingly.



Inputting characters:

Touch the letter key ①.

There are some options available when inputting characters.

- **123 / ABC:**
  Changes the available character set to numbers.
- **Space:**
  Inserts a space.
- **Delete:**
  Deletes the last inputted character with one touch. Touch and hold the “Delete” key to delete all of the characters.

Information Provided by:
DEALER

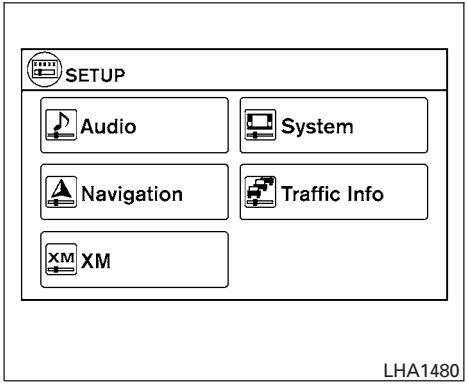
- **OK:**
  Completes the character input.

Touch screen maintenance

If you clean the display screen, use a dry, soft cloth. If additional cleaning is necessary, use a small amount of neutral detergent with a soft cloth. Never spray the screen with water or detergent. Dampen the cloth first and then wipe the screen.

HOW TO USE THE BACK BUTTON

Press the ⮌ BACK button to return to the previous screen.



HOW TO USE THE SETUP BUTTON

When the SETUP button is pressed, the Setup screen will appear on the display. You can select and/or adjust several functions, features and modes that are available for your vehicle.

Audio setup

For audio setup, refer to “Audio system” in this section.

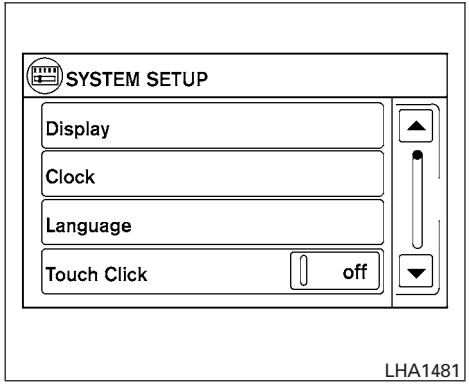
Navigation setup

Refer to the separate Navigation System Owner’s Manual for information regarding this item.

XM setup

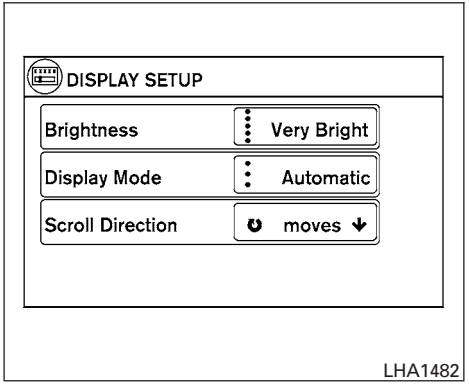
For XM setup, refer to “Audio system” in this section.

Information Provided by:



System setup

Select the “System” key to select and/or adjust various functions of the system. A screen with additional options will appear.



Display:

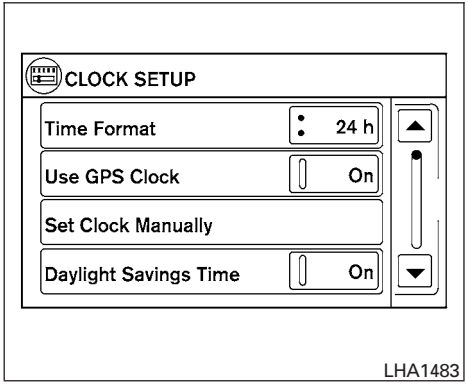
Select the “Display” key to adjust the appearance of the display. The following settings can be adjusted:

Brightness
The brightness of the display can be set to Very Bright, Bright, Default, Dark or Very Dark. Touch the “Brightness” key to cycle through the options.

Display Mode
The display can be adjusted to fit the level of lighting in the vehicle. Touch the “Display Mode” key to cycle through the options. “Day” and “Night” modes are suited for the respective times of day, while “Automatic” controls the display automatically.

Scroll Direction
The direction that menus scroll can be adjusted. Choose either “up” or “down”.

Information Provided by:
DEALER

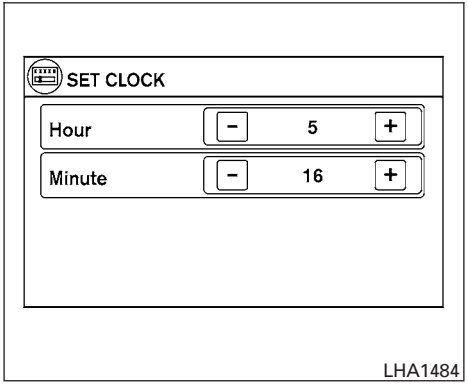


Clock:

Select the “Clock” key to adjust the time and the appearance of the clock on the display. The following settings can be adjusted:

Time Format
The clock can be set to 12 hours or 24 hours.

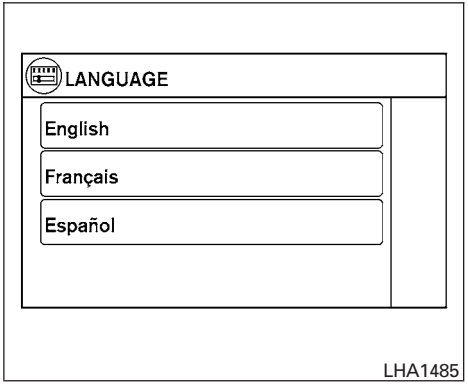
Use GPS Clock
When this setting is activated, the clock is set and continually updated via the GPS used by the Navigation System.



Set Clock Manually
When this setting is activated, the clock can be set manually. Touch the “+” or “-” key to adjust the hours and minutes up or down.

Daylight Savings Time
When this setting is activated, daylight savings time is on. Touch the “Daylight Savings Time” key to toggle the setting on or off.

Time Zone
Choose the applicable time zone from the list.



Language:

Select the “Language” key to adjust the language used by the system. The language can be set to English, Français or Español.

Touch click:

Select the “Touch Click” key to toggle the touch click feature on or off. When activated, a click sound will be heard every time a key on the screen is touched.

Information Provided by:
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Beep tones:

Select the “Beep Tones” key to toggle the beep tones feature on or off. When activated, a beep sound will be heard when a pop-up message appears on the screen or a button on the unit (such as the ☼/☽ button) is pressed and held for two seconds.

Reset all settings/memory:

Select the “Reset All Settings/Memory” key to return all settings to default and to clear the memory.

Traffic setup

Refer to the separate Navigation System Owner’s Manual for information regarding this item.

☼/☽ BUTTON

To change the display brightness, press the ☼/☽ button. Pressing the button again will change the display to the day or the night display.

If no operation is performed within 5 seconds, the display will return to the previous display.

Press and hold the ☼/☽ button for more than two seconds to turn the display off. Press the button again to turn the display on.

When the shift selector is shifted into the R (Reverse) position, the monitor display shows a rearward view from the vehicle.

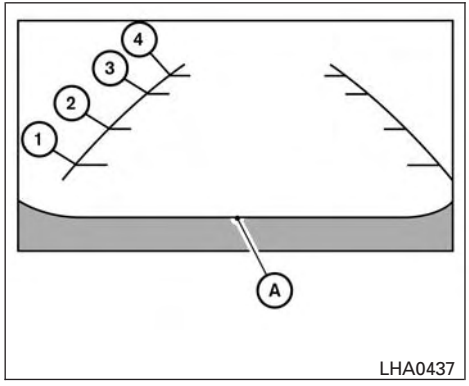
⚠ WARNING

- **The system is designed as an aid to the driver in detecting large stationary objects to help avoid damaging the vehicle. The system will not detect small objects below the bumper, and may not detect objects close to the bumper or on the ground.**
- **The RearView Monitor is a convenience but it is not a substitute for proper backing. Always turn and check that it is safe to do so before backing up. Always back up slowly.**
- **Objects viewed in the RearView Monitor differ from actual distance because a wide-angle lens is used.**
- **Make sure that the trunk is securely closed when backing up.**
- **Underneath the bumper and the corner areas of the bumper cannot be viewed on the RearView Monitor because of its monitoring range limitation.**
- **Do not put anything on the rearview camera. The rearview camera is installed beside the license plate light.**
- **When washing the vehicle with high-pressure water, be sure not to spray it around the camera. Otherwise, water may enter the camera unit causing water condensation on the lens, a malfunction, fire or an electric shock.**
- **Do not strike the camera. It is a precision instrument. Otherwise, it may malfunction or cause damage resulting in a fire or an electric shock.**

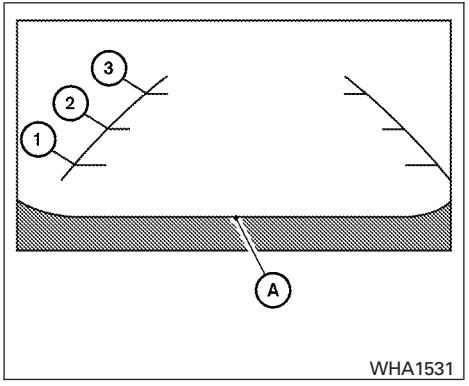
⚠ CAUTION

There is a plastic cover over the camera. Do not scratch the cover when cleaning dirt or snow from the cover.

Information Provided by: DEALER



Without Navigation System



With Navigation System

HOW TO READ THE DISPLAYED LINES

Lines which indicate the vehicle clearance and distances to objects with reference to the bumper line Ⓐ are displayed on the monitor.

They are indicated as reference distances to objects. The lines and colors in the display indicate distances from the back bumper line Ⓐ in the illustration.

① 1.5 ft (0.5 m) red

② 3 ft (1 m) yellow

③ 7 ft (2 m) green

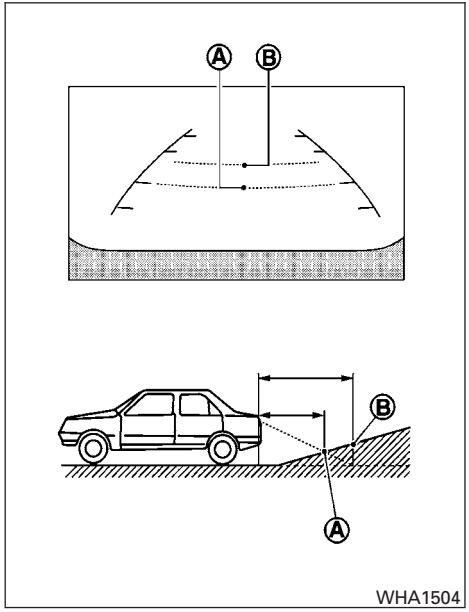
④ 10 ft (3 m) green (models without Navigation System only)

The vehicle clearance lines are wider than the actual clearance.

DIFFERENCE BETWEEN PREDICTED AND ACTUAL DISTANCES

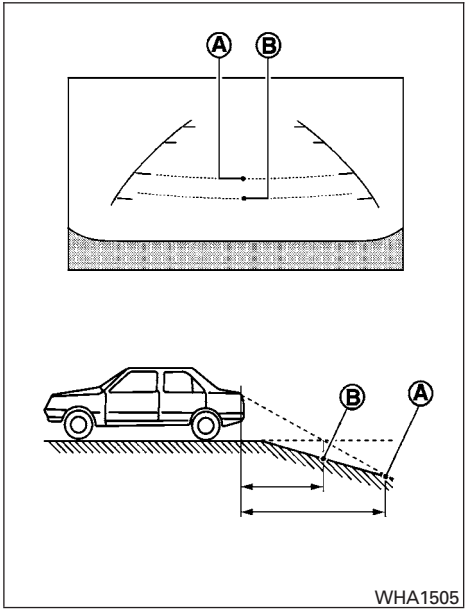
The distance guide line and the vehicle width guide line should be used as a reference only when the vehicle is on a level, paved surface. The distance viewed on the monitor is for reference only and may be different than the actual distance between the vehicle and displayed objects.

Information Provided by:
DEALER



Backing up on a steep uphill

When backing up the vehicle up a hill, the distance guide lines and the vehicle width guide lines are shown closer than the actual distance. For example, the display shows 3 ft (1.0 m) to the place Ⓐ, but the actual 3 ft (1.0 m) distance on the hill is the place Ⓑ. Note that any object on the hill is further than it appears on the monitor.

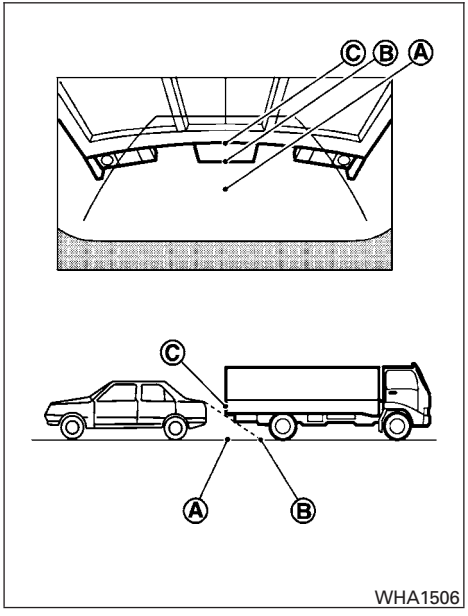


Backing up on a steep downhill

When backing up the vehicle down a hill, the distance guide lines and the vehicle width guide lines are shown farther than the actual distance. For example, the display shows 3 ft (1.0 m) to the place Ⓐ, but the actual 3 ft (1.0 m) distance on

Information Provided by:

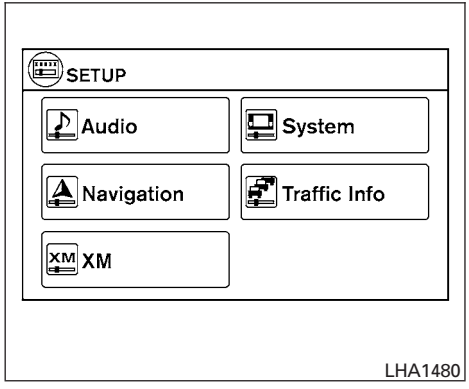
the hill is the place Ⓑ. Note that any object on the hill is closer than it appears on the monitor.



Backing up behind a projecting object

The position Ⓒ is shown farther than the position Ⓑ in the display. However, the position Ⓒ is actually at the same distance as the position Ⓐ. The vehicle may hit the object when backing up to the position Ⓐ if the object projects over the actual backing up course.

Information Provided by:

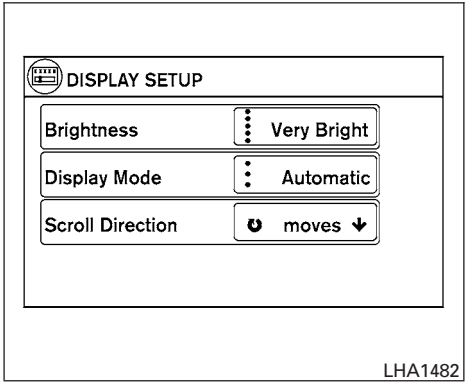


LHA1480

ADJUSTING THE SCREEN

To adjust the quality of the screen, perform the following:

1. Press the SETUP button.
2. Touch “System”.



LHA1482

3. Touch “Display”.
4. To adjust the brightness, touch the “Brightness” key repeatedly to set the display to Very Bright, Bright, Default, Dark or Very Dark. Touch “Display Mode” to cycle between day, night and automatic display modes.

Do not adjust the screen settings of the RearView Monitor while the vehicle is moving.

OPERATING TIPS

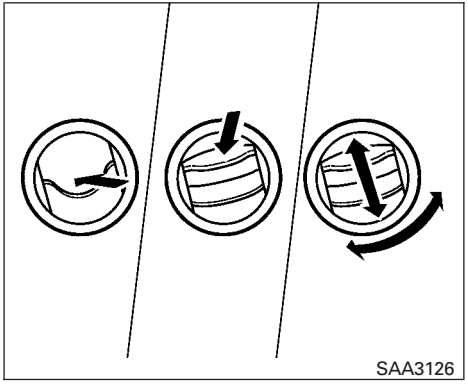
⚠ CAUTION

- **Do not use alcohol, benzine or thinner to clean the camera. This will cause discoloration. To clean the camera, wipe with a cloth dampened with a diluted mild cleaning agent and then wipe with a dry cloth.**
- **Do not damage the camera as the monitor screen may be adversely affected.**

- When the shift selector is shifted to R (Reverse), the monitor screen automatically changes to the RearView Monitor mode. However, the radio can be heard.
- It may take some time until the RearView Monitor is displayed after the shift selector has been shifted to R (Reverse). Objects may be distorted momentarily until the RearView Monitor screen is displayed completely. When the shift selector is returned to a position other than R (Reverse), it may take some time until the screen changes. Objects on the screen may be distorted until they are completely displayed.
- When the temperature is extremely high or low, the screen may not clearly display objects. This is not a malfunction.

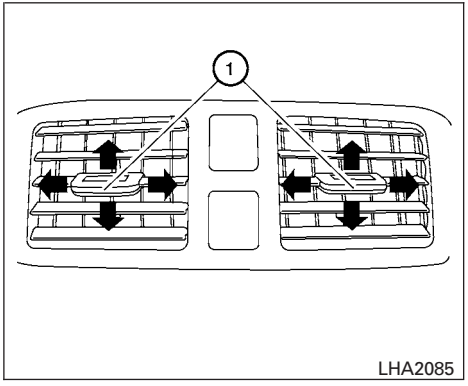
Information Provided by:

- When strong light directly enters the camera, objects may not be displayed clearly.
- Vertical lines may be seen in objects on the screen. This is due to strong reflected light from the bumper. This is not a malfunction.
- The screen may flicker under fluorescent light. This is not a malfunction.
- The colors of objects on the RearView Monitor may differ somewhat from those of the actual object.
- When the contrast of objects is low at night, pressing the setting control knob or SETUP button may not change the brightness.
- Objects on the monitor may not be clear in a dark place or at night.
- If dirt, rain or snow attaches to the camera, the RearView Monitor may not display objects. Clean the camera.
- Do not use body wax on the camera window. If body wax does get on the camera window, wipe off the wax with a clean cloth dampened with mild detergent diluted with water.



Side vents

Adjust the air flow direction of the vents by opening, closing or rotating.



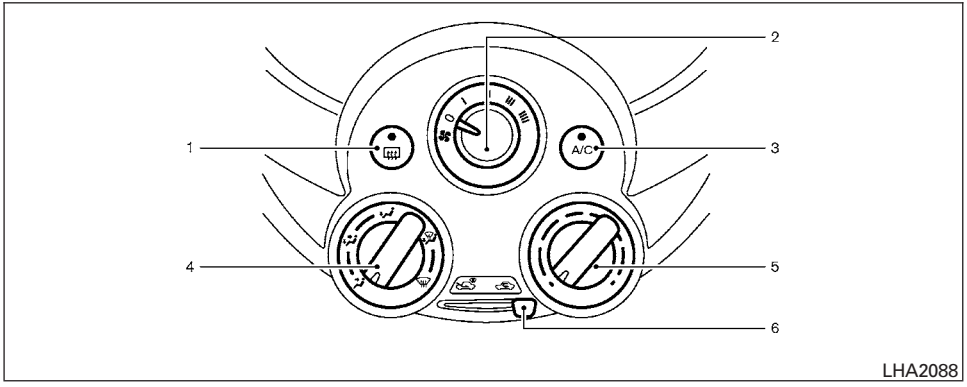
Center vents

Adjust the air flow direction of the vents by moving the slide as indicated ①.

Information Provided by:

⚠ WARNING

- **The air conditioner cooling function operates only when the engine is running.**
- **Do not leave children or adults who would normally require the assistance of others alone in your vehicle. Pets should also not be left alone. They could accidentally injure themselves or others through inadvertent operation of the vehicle. Also, on hot, sunny days, temperatures in a closed vehicle could quickly become high enough to cause severe or possibly fatal injuries to people or animals.**
- **Do not use the recirculation mode for long periods as it may cause the interior air to become stale and the windows to fog up.**



1. Rear window defroster switch
2. Fan control dial
3. Air conditioner button (if so equipped)
4. Air flow control dial
5. Temperature control dial
6. Air intake lever (Outside air circulation/ Air recirculation)

CONTROLS

Fan control dial

The fan control dial turns the fan on and off, and controls fan speed.

Air flow control dial

The air flow control dial allows you to select the air flow outlets.

- — Air flows from center and side vents.
- — Air flows from center and side vents and foot outlets.
- — Air flows mainly from foot outlets.
- — Air flows from defroster outlets and foot outlets.
- — Air flows mainly from defroster outlets.

Information Provided by: DEALER

Temperature control dial

The temperature control dial allows you to adjust the temperature of the outlet air. To lower the temperature, turn the dial to the left. To increase the temperature, turn the dial to the right.

Fresh air

Move the air intake lever to the position. The air flow is drawn from outside the vehicle.

Air recirculation

Move the air intake lever to the position to recirculate air inside the vehicle.

Use the selection:

- when driving on a dusty road.
- to prevent traffic fumes from entering passenger compartment.
- for maximum cooling when using the air conditioner.

A/C Air conditioner button (if so equipped)

Start the engine, turn the fan control dial to the desired position and push the A/C button to turn on the air conditioner. The indicator light comes on when the air conditioner is operating. To turn off the air conditioner, push the A/C button again.

The air conditioner cooling function operates only when the engine is running.

Rear window and outside mirror (if so equipped) defroster switch

For more information about the rear window and outside mirror (if so equipped) defroster switch, see “Rear window and outside mirror defroster switch” in the “Instruments and controls” section of this manual.

HEATER OPERATION

Heating

This mode is used to direct heated air to the foot outlets. Some air also flows from the defrost outlets.

1. Move the air intake lever to the position for normal heating.
2. Turn the air flow control dial to the position.
3. Turn the fan control dial to the desired position.
4. Turn the temperature control dial to the desired position between the middle and the hot position.

Ventilation

This mode directs outside air to the side and center vents.

1. Move the air intake lever to the position.
2. Turn the air flow control dial to the position.
3. Turn the fan control dial to the desired position.
4. Turn the temperature control dial to the desired position.

Defrosting or defogging

This mode directs the air to the defrost outlets to defrost/defog the windows.

1. Move the air intake lever to the position.
2. Turn the air flow control dial to the position.
3. Turn the fan control dial to the desired position.

Information Provided by:

4. Turn the temperature control dial to the desired position between the middle and the hot position.

- To quickly remove ice or fog from the windows, turn the fan control dial to the maximum position and the temperature control dial to the full hot position.

When the or position is selected, press the A/C button to turn on the air conditioner for better performance. This will dehumidify the air and help defog the windows.

Bi-level heating

This mode directs cooler air from the side and center vents and warmer air from the floor outlets. When the temperature control dial is moved to the full hot or full cool position, the air between the vents and the floor outlets is the same temperature.

1. Move the air intake lever to position.
2. Turn the air flow control dial to the position.
3. Turn the fan control dial to the desired position.
4. Turn the temperature control dial to the desired position.

Heating and defogging

This mode heats the interior and defogs the windshield.

1. Move the air intake lever to the position.
2. Turn the air flow control dial to the position.
3. Turn the fan control dial to the desired position.
4. Turn the temperature control dial to the desired position between the middle and the hot position.

When the or position is selected, press the A/C button to turn on the air conditioner for better performance. This will dehumidify the air and help defog the windows.

Operating tips

Clear snow and ice from the wiper blades and air inlet in front of the windshield. This improves heater operation.

AIR CONDITIONER OPERATION (if so equipped)

Start the engine, turn the fan control dial to the desired position, and press the A/C button to activate the air conditioner. When the air conditioner is on, cooling and dehumidifying functions are added to the heater operation.

The air conditioner cooling function operates only when the engine is running.

Cooling

This mode is used to cool and dehumidify the air.

1. Move the air intake lever to the position.
2. Turn the air flow control dial to the position.
3. Turn the fan control dial to the desired position.
4. Push the A/C button. The indicator light comes on.
5. Turn the temperature control dial to the desired position.

Information Provided by:

- For quick cooling when the outside temperature is high, move the air intake lever to the position. Be sure to return to the position for normal cooling.

Dehumidified heating

This mode is used to heat and dehumidify the air.

1. Move the air intake lever to the position.
2. Turn the air flow control dial to the position.
3. Turn the fan control dial to the desired position.
4. Push the A/C button. The indicator light comes on.
5. Turn the temperature control dial to the desired position.

Dehumidified defogging

This mode is used to defog the windows and dehumidify the air.

1. Move the air intake lever to the position.
2. Turn the air flow control dial to the position.
3. Turn the fan control dial to the desired position.
4. Turn the temperature control dial to the desired position.

Operating tips

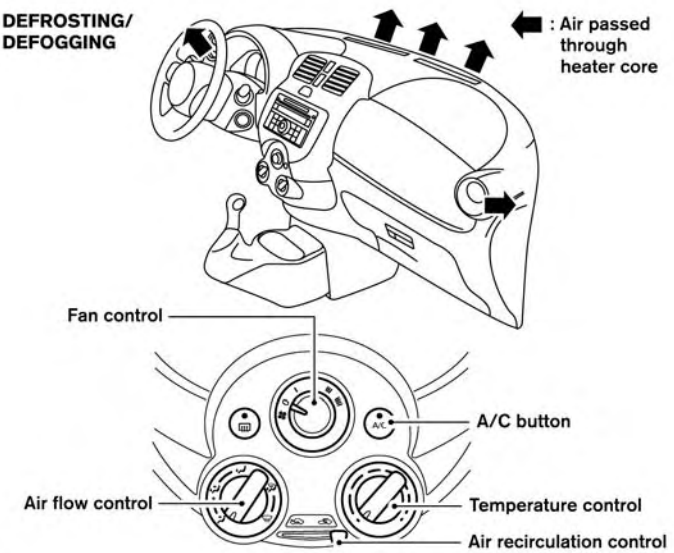
- Keep the windows and moonroof closed while the air conditioner is in operation.
- After parking in the sun, drive for 2 or 3 minutes with the windows open to vent hot air from the passenger compartment. Then, close the windows. This allows the air conditioner to cool the interior more quickly.
- **The air conditioning system should be operated for approximately 10 minutes at least once a month. This helps prevent damage to the system due to lack of lubrication.**
- A visible mist may be seen coming from the ventilators in hot, humid conditions as the air is cooled rapidly. This does not indicate a malfunction.
- **If the engine coolant temperature gauge indicates engine coolant temperature over the normal range, turn the air conditioner off. See “If your vehicle overheats” in the “In case of emergency” section of this manual.**

AIR FLOW CHARTS

The following charts show the button and dial positions for **MAXIMUM AND QUICK** heating, cooling or defrosting. **The air intake lever should always be in the position for heating and defrosting.**

Information Provided by:

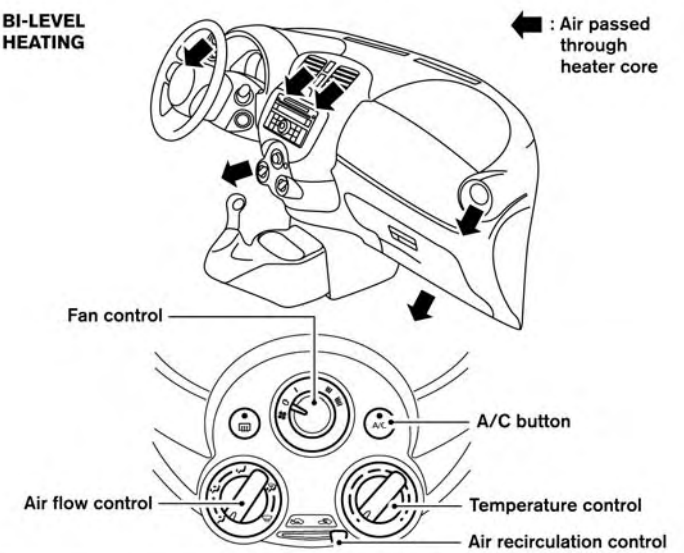
DEFROSTING/ DEFOGGING



Fan control	Air recirculation control	A/C button	Temp. control	Air flow control
4		ON	HOT (RIGHT)	

LHA2481

BI-LEVEL HEATING

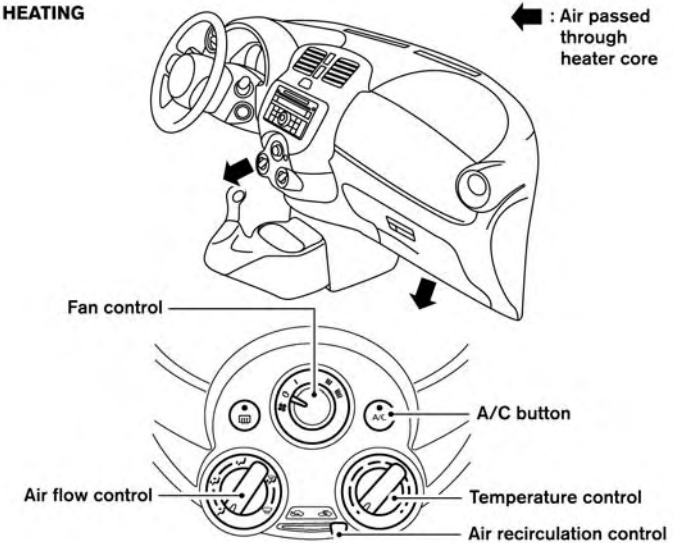


Fan control	Air recirculation control	A/C button	Temp. control	Air flow control
4		OFF	HOT (RIGHT)	

LHA2482

Information Provided by:

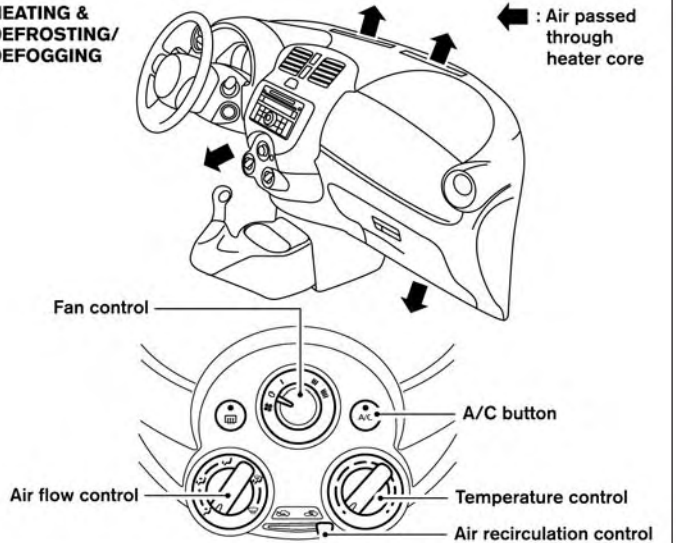
HEATING



Fan control	Air recirculation control	A/C button	Temp. control	Air flow control
4		OFF	HOT (RIGHT)	

LHA2486

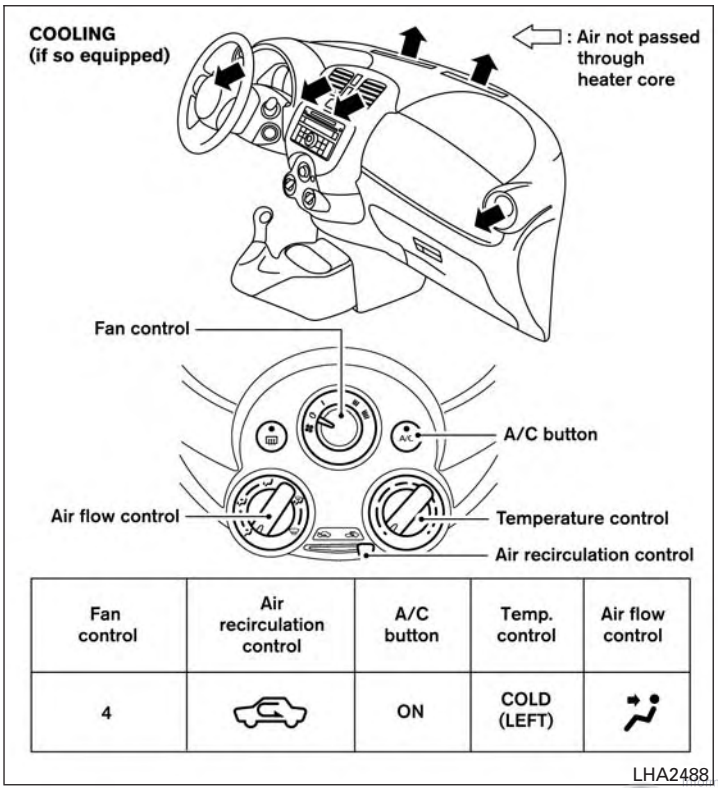
HEATING & DEFROSTING/ DEFOGGING



Fan control	Air recirculation control	A/C button	Temp. control	Air flow control
		AUTO ON	HOT (RIGHT)	

LHA2487

Information Provided by:



Fan control	Air recirculation control	A/C button	Temp. control	Air flow control
4		ON	COLD (LEFT)	

LHA2488

Information Provided by:

SERVICING AIR CONDITIONER (if so equipped)

The air conditioner system in your NISSAN vehicle is charged with a refrigerant designed with the environment in mind.

This refrigerant does not harm the earth's ozone layer.

Special charging equipment and lubricant is required when servicing your NISSAN air conditioner. Using improper refrigerants or lubricants will cause severe damage to your air conditioner system. See "Air conditioner system refrigerant and oil recommendations" in the "Technical and consumer information" section of this manual.

A NISSAN dealer is able to service your "environmentally friendly" air conditioning system.

⚠WARNING

The air conditioner system contains refrigerant under high pressure. To avoid personal injury, any air conditioner service should be done only by an experienced technician with proper equipment.

AUDIO SYSTEM

RADIO

Place the ignition switch in the ACC or ON position and press the PWR button to turn the radio on. If you listen to the radio with the engine not running, the ignition switch should be placed in the ACC position.

Radio reception is affected by station signal strength, distance from radio transmitter, buildings, bridges, mountains and other external influences. Intermittent changes in reception quality normally are caused by these external influences.

Using a cellular phone in or near the vehicle may influence radio reception quality.

Radio reception

Your NISSAN radio system is equipped with state-of-the-art electronic circuits to enhance radio reception. These circuits are designed to extend reception range, and to enhance the quality of that reception.

However, there are some general characteristics of both FM and AM radio signals that can affect radio reception quality in a moving vehicle, even when the finest equipment is used. These characteristics are completely normal in a given reception area and do not indicate any malfunction in your NISSAN radio system.

Reception conditions will constantly change because of vehicle movement. Buildings, terrain, signal distance and interference from other vehicles can work against ideal reception. Described below are some of the factors that can affect your radio reception.

Some cellular phones or other devices may cause interference or a buzzing noise to come from the audio system speakers. Storing the device in a different location may reduce or eliminate the noise.

FM RADIO RECEPTION

Range: FM range is normally limited to 25 – 30 mi (40 – 48 km), with monaural (single channel) FM having slightly more range than stereo FM. External influences may sometimes interfere with FM station reception even if the FM station is within 25 mi (40 km). The strength of the FM signal is directly related to the distance between the transmitter and receiver. FM signals follow a line-of-sight path, exhibiting many of the same characteristics as light. For example, they will reflect off objects.

Fade and drift: As your vehicle moves away from a station transmitter, the signals will tend to fade and/or drift.

Information Provided by:

Static and flutter: During signal interference from buildings, large hills or due to antenna position (usually in conjunction with increased distance from the station transmitter), static or flutter can be heard. This can be reduced by adjusting the treble control to reduce treble response.

Multipath reception: Because of the reflective characteristics of FM signals, direct and reflected signals reach the receiver at the same time. The signals may cancel each other, resulting in momentary flutter or loss of sound.

AM RADIO RECEPTION

AM signals, because of their low frequency, can bend around objects and skip along the ground. In addition, the signals can be bounced off the ionosphere and bent back to earth. Because of these characteristics, AM signals are also subject to interference as they travel from transmitter to receiver.

Fading: Occurs while the vehicle is passing through freeway underpasses or in areas with many tall buildings. It can also occur for several seconds during ionospheric turbulence even in areas where no obstacles exist.

Static: Caused by thunderstorms, electrical power lines, electric signs and even traffic lights.

SATELLITE RADIO RECEPTION (if so equipped)

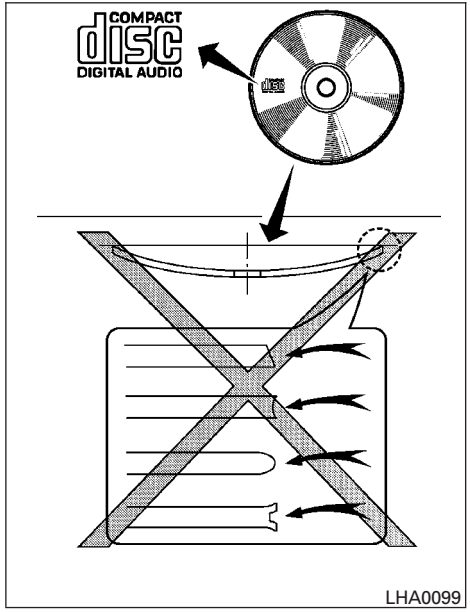
When the satellite radio is used for the first time or the battery has been replaced, the satellite radio may not work properly. This is not a malfunction. Wait more than 10 minutes with satellite radio ON and the vehicle outside of any metal or large building for satellite radio to receive all of the necessary data.

No satellite radio reception is available unless there is an active SiriusXM Satellite Radio service subscription. Satellite radio is not available in Alaska, Hawaii and Guam. If satellite radio is not operational then pressing the RADIO button will switch between FM and AM bands.

Satellite radio performance may be affected if cargo carried on the roof blocks the satellite radio signal.

If possible, do not put cargo over the satellite antenna.

A build up of ice on the satellite radio antenna can affect satellite radio performance. Remove the ice to restore satellite radio reception.



AUDIO OPERATION PRECAUTIONS

Information Provided by:
DEALER

Compact disc (CD) player

⚠ CAUTION

- **Do not force a compact disc into the CD insert slot. This could damage the CD and/or CD changer/player.**
- **Trying to load a CD with the CD door closed could damage the CD and/or CD changer.**
- **Only one CD can be loaded into the CD player at a time.**

- **Only use high quality 4.7 in (12 cm) round discs that have the "COMPACT disc DIGITAL AUDIO" logo on the disc or packaging.**
- **During cold weather or rainy days, the player may malfunction due to the humidity. If this occurs, remove the CD and dehumidify or ventilate the player completely.**
- **The player may skip while driving on rough roads.**
- **The CD player sometimes cannot function when the compartment temperature is extremely high or low. Decrease/increase the temperature before use.**
- **Do not expose the CD to direct sunlight.**
- **CDs that are in poor condition or are dirty, scratched or covered with fingerprints may not work properly.**
- **The following CDs may not work properly:**
  - **Copy control compact discs (CCCD)**
  - **Recordable compact discs (CD-R)**
  - **Rewritable compact discs (CD-RW)**
- **Do not use the following CDs as they may cause the CD player to malfunction:**
  - **3.1 in (8 cm) discs with an adapter**
  - **CDs that are not round**
  - **CDs with a paper label**
  - **CDs that are warped, scratched, or have abnormal edges**
- **This audio system can only play prerecorded CDs. It has no capability to record or burn CDs.**
- **If the CD cannot be played, one of the following messages will be displayed.**

CHECK DISC:

- **Confirm that the CD is inserted correctly (the label side is facing up, etc.).**
- **Confirm that the CD is not bent or warped and it is free of scratches.**

PRESS EJECT:

This is an error due to excessive temperature inside the player. Remove the CD by pressing the EJECT button. After a short time, reinsert the CD. The CD can be played when the temperature of the player returns to normal.

UNPLAYABLE:

The file is unplayable in this audio system (only MP3 or WMA (if so equipped) CD).

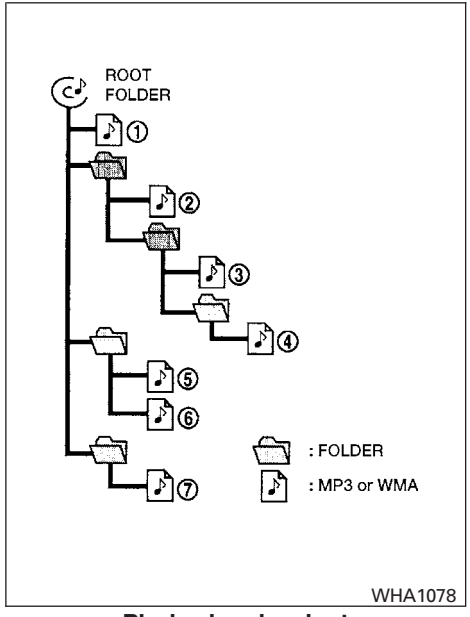
Information Provided by:
DEALER

Compact disc with MP3 or WMA (if so equipped)

Terms:

- MP3 — MP3 is short for Moving Pictures Experts Group Audio Layer 3. MP3 is the most well-known compressed digital audio file format. This format allows for near “CD quality” sound, but at a fraction of the size of normal audio files. MP3 conversion of an audio track from CD-ROM can reduce the file size by approximately a 10:1 ratio with virtually no perceptible loss in quality. MP3 compression removes the redundant and irrelevant parts of a sound signal that the human ear doesn’t hear.
- WMA — Windows Media Audio (WMA)* is a compressed audio format created by Microsoft as an alternative to MP3. The WMA codec offers greater file compression than the MP3 codec, enabling storage of more digital audio tracks in the same amount of space when compared to MP3s at the same level of quality.
- Bit rate — Bit rate denotes the number of bits per second used by a digital music file. The size and quality of a compressed digital audio file is determined by the bit rate used when encoding the file.
- Sampling frequency — Sampling frequency is the rate at which the samples of a signal are converted from analog to digital (A/D conversion) per second.
- Multisession — Multisession is one of the methods for writing data to media. Writing data once to the media is called a single session, and writing more than once is called a multisession.
- ID3/WMA Tag — The ID3/WMA tag is the part of the encoded MP3 or WMA file that contains information about the digital music file such as song title, artist, encoding bit rate, track time duration, etc. ID3 tag information is displayed on the Artist/song title line on the display.

* Windows® and Windows Media® are registered trademarks and trademarks in the United States of America and other countries of Microsoft Corporation of the USA.



Playback order chart

Information Provided by:
DEALER

Playback order:

Music playback order of a CD with MP3 or WMA files is as illustrated.

- The names of folders not containing MP3 or WMA files are not shown in the display.
- If there is a file in the top level of the disc, “Root Folder” is displayed.
- The playback order is the order in which the files were written by the writing software. Therefore, the files might not play in the desired order.

Information Provided by:

Specification chart:

Supported media			CD, CD-R, CD-RW
Supported file systems			ISO9660 LEVEL1, ISO9660 LEVEL2, Apple ISO, Romeo, Joliet * ISO9660 Level 3 (packet writing) is not supported.
Supported versions*1	MP3	Version	MPEG1, MPEG2, MPEG2.5
		Sampling frequency	8 kHz - 48 kHz
		Bit rate	8 kbps - 320 kbps, VBR
	WMA	Version	WMA7, WMA8, WMA9
		Sampling frequency	32 kHz - 48 kHz
		Bit rate	48 kbps - 192 kbps, VBR
Tag information			ID3 tag VER1.0, VER1.1, VER2.2, VER2.3 (MP3 only)
Folder levels			Folder levels: 8, Max folders: 255 (including root folder), Files: 512 (Max. 255 files for one folder)
Text character number limitation			128 characters
Displayable character codes*2			01: ASCII, 02: ISO-8859-1, 03: UNICODE (UTF-16 BOM Big Endian), 04: UNICODE (UTF-16 Non-BOM Big Endian), 05: UNICODE (UTF-8), 06: UNICODE (Non-UTF-16 BOM Little Endian)

*1 Files created with a combination of 48 kHz sampling frequency and 64 kbps bit rate cannot be played.

*2 Available codes depend on what kind of media, versions and information are going to be displayed.

Information Provided by:

Troubleshooting guide:

Symptom	Cause and Countermeasure
Cannot play	Check if the disc was inserted correctly.
	Check if the disc is scratched or dirty.
	Check if there is condensation inside the player. If there is, wait until the condensation is gone (about 1 hour) before using the player.
	If there is a temperature increase error, the CD player will play correctly after it returns to the normal temperature.
	If there is a mixture of music CD files (CD-DA data) and MP3/WMA files on a CD, only the music CD files (CD-DA data) will be played.
	Files with extensions other than ".MP3",".WMA", ".mp3" or ".wma" cannot be played. In addition, the character codes and number of characters for folder names and file names should be in compliance with the specifications.
	Check if the finalization process, such as session close and disc close, is done for the disc.
	Check if the disc is protected by copyright.
Poor sound quality	Check if the disc is scratched or dirty.
	Bit rate may be too low.
It takes a relatively long time before the music starts playing.	If there are many folders or file levels on the MP3/WMA disc, or if it is a multisession disc, some time may be required before the music starts playing.
Music cuts off or skips	The writing software and hardware combination might not match, or the writing speed, writing depth, writing width, etc., might not match the specifications. Try using the slowest writing speed.
Skipping with high bit rate files	Skipping may occur with large quantities of data, such as for high bit rate data.
Moves immediately to the next song when playing	When a non-MP3/WMA file has been given an extension of ".MP3", ".WMA", ."mp3"or ".wma", or when play is prohibited by copyright protection, there will be approximately 5 seconds of no sound and then the player will skip to the next song.
Songs do not play back in the desired order	The playback order is the order in which the files were written by the writing software. Therefore, the files might not play in the desired order.

Information Provided by:

USB (Universal Serial Bus) memory (if so equipped)

⚠ WARNING

Do not connect or disconnect the USB device while driving. Doing so can be a distraction. If distracted you could lose control of your vehicle and cause an accident or serious injury.

⚠ CAUTION

- **Do not force the USB device into the USB port. Inserting the USB device tilted or up-side-down into the port may damage the USB device and the port. Make sure that the USB device is connected correctly into the USB port.**
- **Do not grab the USB port cover (if so equipped) when pulling the USB device out of the port. This could damage the port and the cover.**
- **Do not leave the USB cable in a place where it can be pulled unintentionally. Pulling the cable may break the wire, USB device or the port.**
- **To avoid damage and loss of function when using a USB device, note the following precautions.**
  - **– Do not bend the cable excessively (1.6 in [40 mm]) radius minimum.**
  - **– Do not twist the cable excessively (more than 180 degrees).**
  - **– Do not pull or drop the cable.**
  - **– Do not hit or press the USB port or USB device with hands, feet, or objects.**
  - **– Do not store objects with sharp edges in the storage area where the cable is stored.**
  - **– Do not leave the USB device and attached devices in the vehicle compartment. When not in use for extended periods of time, store the cable and USB device in a clean, dust free environment at room temperature and without direct sun exposure.**
  - **– Do not use the cable for any other purposes than its intended use in the vehicle.**

The vehicle is not equipped with a USB device. USB devices should be purchased separately as necessary.

This system cannot be used to format USB devices. To format a USB device, use a personal computer.

In some states/area, the USB device for the front seats plays only sound without images for regulatory reasons, even when the vehicle is parked.

This system supports various USB memory devices, USB hard drives and iPod® players. Some USB devices may not be supported by this system.

- Partitioned USB devices may not play correctly.
- Some characters used in other languages (Chinese, Japanese, etc.) may not appear properly in the display. Using English language characters with a USB device is recommended.

General notes for USB use:

- The USB device may not function when the passenger compartment temperature is extremely high. Lower the temperature before use.
- During cold weather or rainy days, the player may malfunction due to humidity. If this occurs, remove the USB device and dehumidify or ventilate the USB player completely.

Information Provided by: DEALER

- Do not connect a USB device if a connector, cable or USB port is wet. Allow the connector, cable, and USB port to dry completely before connecting the USB device. (Wait for 24 hours or more until it is dry.) If the connector and USB port are exposed to fluids other than water, evaporative residue may cause a short circuit between the connector pins and USB port. In this case, replace the cable and USB port. Otherwise damage to the USB device and a loss of function may occur.
- If the cable is damaged (insulation cut, connectors cracked, contamination such as liquids, dust, dirt, etc. in the connectors), do not use the cable. Replace the cable with a new one.
- Do not put a USB device in a location where static electricity occurs, electrical noise is generated or hot air from the air conditioner blows directly on it. Doing so may cause the data stored on the USB device to be corrupted.

Notes for iPod® use:

iPod® is a trademark of Apple Inc., registered in the U.S. and other countries.

- Improperly plugging in the iPod may cause a checkmark to be displayed on and off (flickering). Always make sure that the iPod is connected properly.
- An iPod® nano (1st Generation) may remain in fast forward or rewind mode if it is connected during a seek operation. In this case, please manually reset the iPod.
- An iPod® nano (2nd Generation) will continue to fast-forward or rewind if it is disconnected during a seek operation.
- An incorrect song title may appear when the Play Mode is changed while using an iPod® nano (2nd Generation).
- Audiobooks may not play in the same order as they appear on an iPod®.
- Large video files cause slow responses in an iPod®. The vehicle center display may momentarily black out, but will soon recover.
- If an iPod® automatically selects large video files while in the shuffle mode, the vehicle center display may momentarily black out, but will soon recover.

iPod®* player (if so equipped)

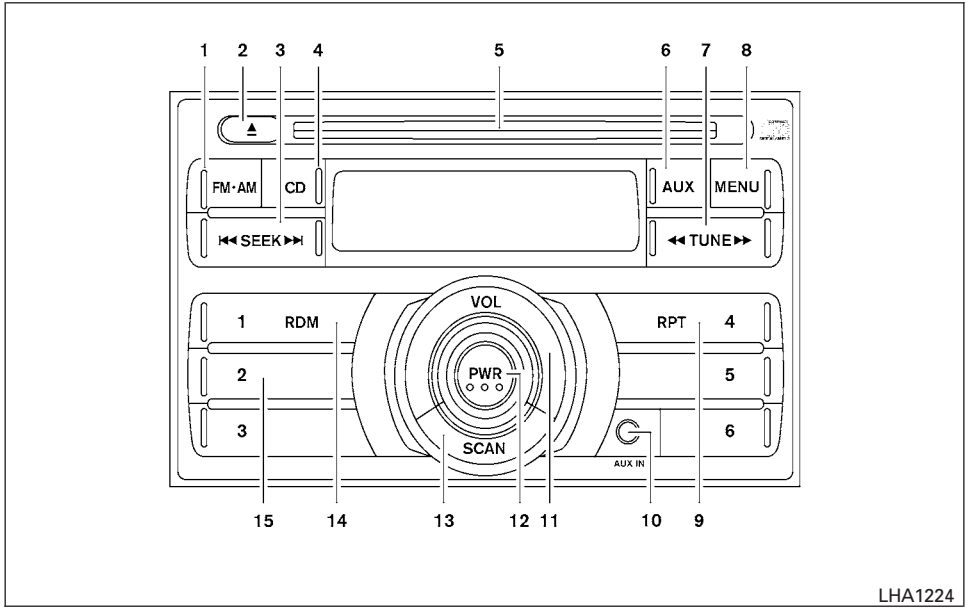
- Some characters used in other languages (Chinese, Japanese, etc.) are not displayed properly on the vehicle center screen. We recommend using English language characters with an iPod®.
- Large video podcast files cause slow responses in the iPod®. The vehicle center display may momentarily black out, but it will soon recover.
- If the iPod® automatically selects large video podcast files while in the shuffle mode, the vehicle center display may momentarily black out, but it will soon recover.
- Improperly plugging in the iPod® may cause a checkmark to be displayed on and off (flickering). Always make sure that the iPod® is connected properly.
- The iPod® nano (2nd Generation) will continue to fast forward or rewind if it is disconnected during a seek operation.
- An incorrect song title may appear when the Play Mode is changed while using the iPod® nano (2nd Generation).
- Audiobooks may not play in the same order as they appear on the iPod®.

Information Provided by:
DEALER

- The iPod® nano (1st Generation) may remain in fast forward or rewind mode if it is connected during a seek operation. In this case, please manually reset the iPod®.
- If you are using an iPod® (3rd Generation with Dock connector), do not use very long names for the song title, album name or artist name to prevent the iPod® from resetting itself.
- Be careful not to do the following, or the cable could be damaged and a loss of function may occur:
  - Bend the cable excessively (1.6 in (40 mm) radius maximum).
  - Twist the cable excessively (more than 180 degrees).
  - Pull or drop the cable.
  - Do not force the iPod® cable connector into the device port.
  - Close the center console lid on the cable or connectors.
  - Store objects with sharp edges in the storage where the cable is stored.
  - Spill liquids on the cable and connectors.
- Do not connect the cable to the iPod® if the cable and/or connectors are wet. It may damage the iPod®.
- If the cable and connectors are exposed to water, allow the cable and/or connectors to dry completely before connecting the cable to the iPod® (wait 24 hours for it to dry).
- If the connector is exposed to fluids other than water, evaporative residue may cause a short between the connector pins. In this case, replace the cable, otherwise damage to the iPod® and a loss of function may occur.
- If the cable is damaged (insulation cut, connectors cracked, contamination such as liquids, dust, dirt, etc. in the connectors), do not use the cable and contact a NISSAN dealer to replace the cable with a new one.
- When not in use for extended periods of time, store the cable in a clean, dust free environment at room temperature and without direct sun exposure.
- Do not use the cable for any other purposes other than its intended use in the vehicle.

*iPod® is a trademark of Apple Inc., registered in the U.S. and other countries.

Information Provided by:



Type A

1. FM-AM button
2. ⏏ CD eject button
3. SEEK button
4. CD button
5. CD insert slot
6. AUX button
7. TUNE button
8. MENU button
9. RPT button
10. AUX IN jack
11. VOLUME control knob
12. PWR button
13. SCAN button
14. RDM button
15. Station select (1 - 6) buttons

FM/AM RADIO WITH COMPACT DISC (CD) PLAYER (Type A) (if so equipped)

For all operation precautions, see “Audio operation precautions” in this section.

Audio main operation

POWER/VOLUME control:

Place the ignition switch in the ACC or ON position. Press the PWR button while the system is off to call up the mode (radio, CD or AUX) that was playing immediately before the system was turned off. While the system is on, pressing the PWR button turns the system off.

Turn the VOL control knob to adjust the volume.

MENU button (Bass, Treble, Fade, Balance and Clock):

Press the MENU button to change the mode as follows:

BAS (Bass) → TRE (Treble) → FAD (Fade) → BAL (Balance) → Clock → Normal mode

Information Provided by:

Press the SEEK ⏮ or ⏭ or TUNE ◀◀ or ▶▶ button to adjust the Bass, Treble, Fade and Balance to the desired level. Fade adjusts the sound level between the front and rear speakers and Balance adjusts the sound between the right and left speakers.

Once you have adjusted the sound quality to the desired level, press the MENU button repeatedly until the radio or CD display reappears. If no action is taken, the radio or CD display will automatically reappear after approximately 10 seconds.

Clock set

If the clock is not displayed with the ignition switch in the ACC or ON position, you need to select the CLK-ON mode. Press the MENU button repeatedly until CLK-OFF mode is displayed. Use the TUNE/FF-REW/FOLDER button to enable CLK-ON mode.

1. Press the MENU button repeatedly until "Clock:" appears. The hours will begin flashing.
2. Press the SEEK button ⏮ or ⏭ or the TUNE button ◀◀ or ▶▶ to adjust the hours.
3. Press the MENU button again. The minutes will begin flashing.
4. Press the SEEK button ⏮ or ⏭ or the TUNE button ◀◀ or ▶▶ to adjust the minutes.
5. Press the MENU button again to exit the clock set mode.

If no action is taken, the display will return to the regular clock display after 10 seconds.

FM/AM radio operation

FM·AM button:

Press the FM·AM button to change the band as follows:

AM → FM1 → FM2 → AM

If another audio source is playing when the FM·AM button is pressed, the audio source playing will automatically be turned off and the last radio station played will begin playing.

The FM stereo indicator (ST) illuminates during FM stereo reception. When the stereo broadcast signal is weak, the radio automatically changes from stereo to monaural reception.

◀◀ ▶▶ **TUNE button (Tuning):**

Press the TUNE button ◀◀ or ▶▶ for manual tuning.

⏮ ⏭ **SEEK tuning:**

Press the SEEK button ⏮ or ⏭ to tune from low to high or high to low frequencies and to stop at the next broadcasting station.

SCAN tuning:

Press the SCAN button to stop at each broadcasting station for 5 seconds. Pressing the button again during this 5 second period will stop SCAN tuning and the radio will remain tuned to that station. If the SCAN button is not pressed within 5 seconds, SCAN tuning moves to the next station.

1 to 6 Station memory operations:

Twelve stations can be set for the FM band (6 for FM1, 6 for FM2) and six stations can be set for the AM band.

1. Choose the radio band AM, FM1 or FM2 using the AM·FM select button.
2. Tune to the desired station using manual, SEEK or SCAN tuning. Press and hold any of the desired station memory buttons (1 – 6) until a beep sound is heard.
3. The channel indicator will then come on and the sound will resume. Programming is now complete.

Information Provided by:

4. Other buttons can be set in the same manner.

If the battery cable is disconnected or if the fuse opens, the radio memory will be canceled. In that case, reset the desired stations.

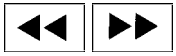
Compact disc (CD) player operation

If the radio is already operating, it automatically turns off and the compact disc begins to play.

CD button:

When the CD button is pressed with the system off and the compact disc loaded, the system will turn on and the compact disc will start to play.

When the CD button is pressed with a compact disc loaded and the radio playing, the radio will automatically be turned off and the compact disc will start to play.



TUNE (Rewind or Fast Forward) button:

When the TUNE button ◀◀ or ▶▶ is pressed while the compact disc is playing, the compact disc plays at an increased speed while reversing or fast forwarding. When the button is released, the compact disc returns to normal play speed.

SEEK button:

When the SEEK button ▶▶| is pressed while the compact disc is playing, the next track following the present one starts to play from the beginning. Press the SEEK button ▶▶| several times to skip several tracks. Each time the button is pressed, the CD advances one additional track. The track number appears in the display window. (When the last track on the compact disc is skipped, the first track is played.)

When the SEEK button |◀◀ is pressed, the track being played returns to the beginning. Press the SEEK button |◀◀ several times to skip back several tracks. Each time the button is pressed the CD moves back one track.

RDM button:

When the RDM button is pressed while a compact disc is playing, the play pattern can be changed as follows:

1 CD RDM ⟷ 1 CD RPT

1 CD RDM: all tracks on the disc will be played randomly.

1 CD RPT: play pattern returns to normal.

RPT button:

When the RPT button is pressed while a compact disc is playing, the play pattern can be changed as follows:

1 TR RPT ⟷ 1 CD RPT

1 TR RPT: the current track will be repeated.

1 CD RPT: play pattern returns to normal.

AUX (Auxiliary) button:

The AUX IN jack is located on the front of the radio. The AUX IN audio input jack accepts any standard analog audio input such as from a portable cassette tape/CD player, MP3 player or a laptop computer.

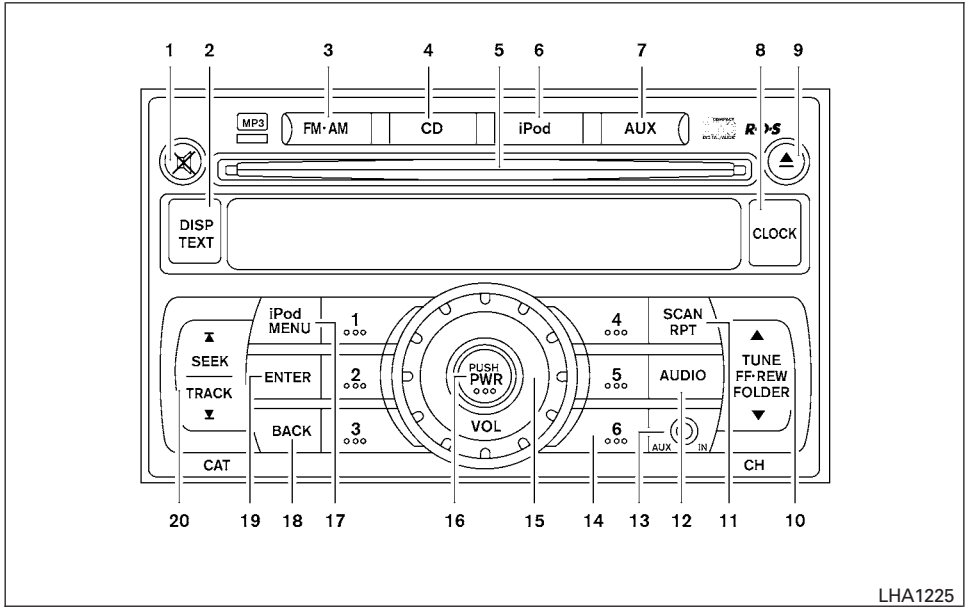
Press the AUX button to play a compatible device when it is plugged into the AUX IN jack.

EJECT button:

When the ⏏ button is pressed with a compact disc loaded, the compact disc will eject and the last source will be played.

When the ⏏ button is pressed twice with a compact disc loaded, the compact disc will be ejected further for easier CD removal. If the disc is not removed within 15 seconds, the disc will reload.

Information Provided by:
DEALER



Type B

1. MUTE button
2. DISP/TEXT button
3. FM-AM button
4. CD button
5. CD insert slot
6. iPod button
7. AUX button
8. CLOCK button
9. CD eject button
10. TUNE/FF-REW/FOLDER button
11. SCAN/RPT button
12. AUDIO button
13. AUX IN jack
14. Station select (1 - 6) buttons
15. VOLUME control knob
16. PWR button
17. iPod MENU button
18. BACK button
19. ENTER button
20. SEEK/TRACK button

FM/AM RADIO WITH COMPACT DISC (CD) PLAYER (Type B) (if so equipped)

For all operation precautions, see ″Audio operation precautions″ in this section.

Audio main operation

POWER/VOLUME control:

Place the ignition switch in the ACC or ON position. Press the PWR button while the system is off to call up the mode (radio, CD or AUX) that was playing immediately before the system was turned off. While the system is on, pressing the PWR button turns the system off.

Turn the VOL control knob to adjust the volume.

MUTE button:

Press the button to mute the audio sound.

Press the button again to resume playing the audio at its previous volume.

AUDIO button (Bass, Treble, Fade, Balance, SSV, Beep):

Press the AUDIO button to change the mode as follows:

Bass → Treble → Fade → Balance → Speed Sensitive Volume (SSV) → Beep ON/OFF → Normal mode

To adjust Bass, Treble, Fade and Balance, press the AUDIO button until the desired mode appears in the display. Press the TUNE ▲ or ▼ or SEEK ⏮ or ⏭ button to adjust the selected mode to the desired level. Fade adjusts the sound level between the front and rear speakers and Balance adjusts the sound between the right and left speakers.

To change the Beep to ON or OFF, press the TUNE button up or down until the desired mode is displayed. This will enable or disable the beep sound heard during menu selection.

To change the Speed Sensitive Volume (SSV) mode to OFF, LOW, MID or HIGH, press the TUNE button ▲ or ▼ until the desired setting is displayed.

Once you have adjusted the sound quality to the desired level, press the AUDIO button repeatedly until the radio or CD display reappears. If no action is taken, the radio or CD display will automatically reappear after approximately 5 seconds.

Clock set

If the clock is not displayed with the ignition switch in the ACC or ON position, you need to select the CLK-ON mode. Press the MENU button repeatedly until CLK-OFF mode is displayed. Use the TUNE/FF-REW/FOLDER button to enable CLK-ON mode.

1. Press and hold the CLOCK button until the clock display starts to flash.
2. Press the SEEK/TRACK button ⏮ or ⏭ to adjust the hours.
3. Press the TUNE/FF-REW/FOLDER button ▲ or ▼ to adjust the minutes.
4. Press the CLOCK button again to exit the clock set mode.

If no action is taken, the display will return to the regular clock display after 10 seconds.

DISP (display) button

This button works during FM, CD and iPod® operation. See the detailed function for this button in the section for each mode.

iPOD® MENU, ENTER and BACK buttons

These buttons can only be used for iPod® operations. See “iPod® Player Operation without Navigation System” later in this section for details about the functions of these buttons.

FM/AM radio operation

FM·AM button:

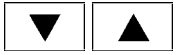
Press the FM·AM button to change the band as follows:

AM → FM1 → FM2 → AM

If another audio source is playing when the FM·AM button is pressed, the audio source playing will automatically be turned off and the last radio station played will begin playing.

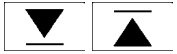
The FM stereo indicator (ST) illuminates during FM stereo reception. When the stereo broadcast signal is weak, the radio automatically changes from stereo to monaural reception.

Information Provided by:
DEALER



TUNE button (Tuning):

Press the TUNE/FF-REW/FOLDER button ▼ or ▲ for manual tuning.



SEEK tuning:

Press the SEEK/TRACK button ▼ or ▲ to tune from low to high or high to low frequencies and to stop at the next broadcasting station.

SCAN tuning:

Press the SCAN/RPT button to stop at each broadcasting station for 5 seconds. Pressing the button again during this 5 second period will stop SCAN tuning and the radio will remain tuned to that station. If the SCAN/RPT button is not pressed within 5 seconds, SCAN tuning moves to the next station.

1 to 6 Station memory operations:

Twelve stations can be set for the FM band (6 for FM1, 6 for FM2) and six stations can be set for the AM band.

1. Choose the radio band AM, FM1 or FM2 using the AM·FM select button.
2. Tune to the desired station using manual, SEEK or SCAN tuning. Press and hold any of the desired station memory buttons (1 – 6) until a beep sound is heard.
3. The channel indicator will then come on and the sound will resume. Programming is now complete.
4. Other buttons can be set in the same manner.

If the battery cable is disconnected or if the fuse opens, the radio memory will be canceled. In that case, reset the desired stations.

DISP/TEXT button:

When the DISP/TEXT button is pressed while in FM radio mode, the radio display will change as follows:

Frequency → PTY → PS → Frequency

Compact disc (CD) player operation

If the radio is already operating, it automatically turns off and the compact disc begins to play.

CD button:

When the CD button is pressed with the system off and the compact disc loaded, the system will turn on and the compact disc will start to play.

When the CD button is pressed with a compact disc loaded and the radio playing, the radio will automatically be turned off and the compact disc will start to play.

DISP/TEXT button:

When the DISP/TEXT button is pressed while a CD is playing, the display will change as follows:

CD:

Track number → Disc title → Song title → Track number

CD with MP3 or WMA:

Track number → Folder title → Album title → Artist → Song title → Track number

TUNE/FF-REW/FOLDER (Reverse or Fast Forward) button:

CD:

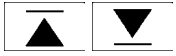
When the TUNE/FF-REW/FOLDER button ▲ (fast forward) or ▼ (reverse) is pressed while the compact disc is playing, the compact disc plays at an increased speed while reversing or fast forwarding. When the button is released, the compact disc returns to normal play speed.

Information Provided by:

CD with MP3 or WMA:

When the TUNE/FF-REW/FOLDER button ▲ (fast forward) or ▼ (reverse) is pressed for less than 1.5 seconds while the compact disc is playing, the folders in the CD will change.

When the TUNE/FF-REW/FOLDER button ▲ (fast forward) or ▼ (reverse) is pressed for more than 1.5 seconds while the compact disc is playing, the compact disc plays at an increased speed while reversing or fast forwarding. When the button is released, the compact disc returns to normal play speed.



SEEK/TRACK button:

When the SEEK/TRACK button ▲ is pressed while the compact disc is playing, the next track following the present one starts to play from the beginning. Press the SEEK/TRACK button ▲ several times to skip several tracks. Each time the button is pressed, the CD advances one additional track. The track number appears in the display window. (When the last track on the compact disc is skipped, the first track is played.)

When the SEEK/TRACK button ▼ is pressed, the track being played returns to the beginning. Press the SEEK/TRACK button ▼ several times to skip back several tracks. Each time the button is pressed the CD moves back one track.

SCAN/RPT button:

When the SCAN/RPT button is pressed while a compact disc is playing, the play pattern can be changed as follows:

CD:

REPEAT TRACK → RANDOM TRACK → REPEAT DISC

CD with MP3 or WMA:

REPEAT FOLDER → REPEAT TRACK → RANDOM TRACK → RANDOM FOLDER → REPEAT DISC

REPEAT TRACK: the current track will be repeated.

RANDOM TRACK: all tracks on the disc will be played randomly.

REPEAT DISC: play pattern returns to normal.

REPEAT FOLDER: the current folder will be repeated.

RANDOM FOLDER: all tracks in the current folder will be played randomly.

AUX (Auxiliary) button:

The AUX IN jack is located on the front of the radio. The AUX IN audio input jack accepts any standard analog audio input such as from a portable cassette tape/CD player, MP3 player or a laptop computer.

Press the AUX button to play a compatible device when it is plugged into the AUX IN jack.

EJECT button:

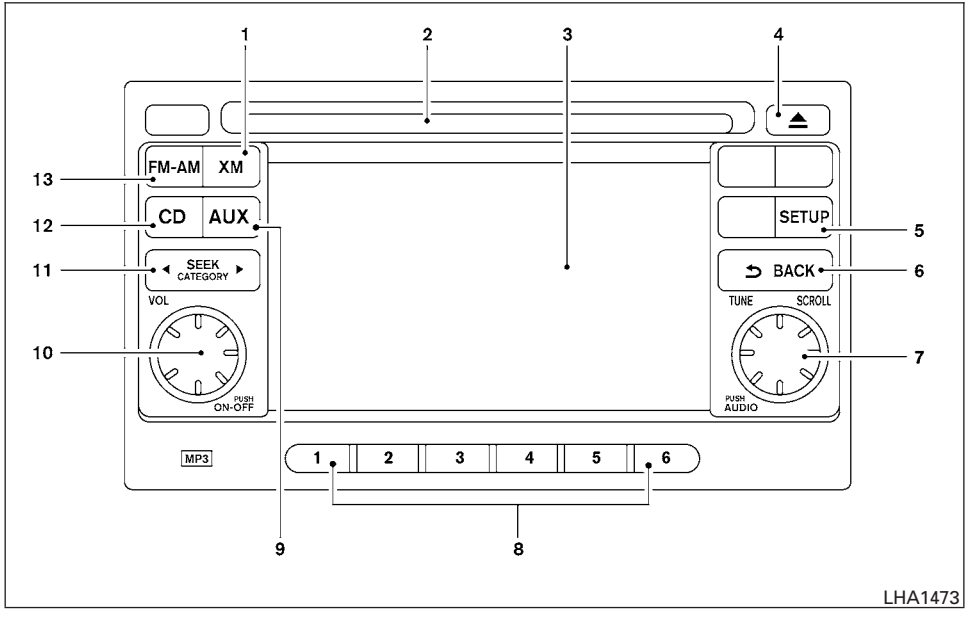
When the ⏏ button is pressed with a compact disc loaded, the compact disc will eject and the last source will be played.

When the ⏏ button is pressed twice with a compact disc loaded, the compact disc will be ejected further for easier CD removal. If the disc is not removed within 15 seconds, the disc will reload.

Additional features

For more information about the iPod® player available with this system, see “iPod® player operation without Navigation System” in this section.

Information Provided by:
DEALER



1. XM button
2. CD insert slot
3. Display screen
4. ⏏ CD eject button
5. SETUP button
6. ⮌ BACK button
7. TUNE/SCROLL knob, AUDIO button
8. Station select (1 - 6) buttons
9. AUX button
10. VOL/ON-OFF control knob
11. SEEK/CATEGORY button
12. CD button
13. FM-AM button

*No satellite radio reception is available when the XM button is pressed to access satellite radio stations unless optional satellite receiver and antenna are installed and an Sirius XM Satellite Radio service subscription is active. Satellite radio is not available in Alaska, Hawaii and Guam.

FM/AM/SAT RADIO WITH COMPACT DISC (CD) PLAYER (if so equipped)

For all operation precautions, see “Audio operation precautions” in this section.

Audio main operation

VOL/ON·OFF control:

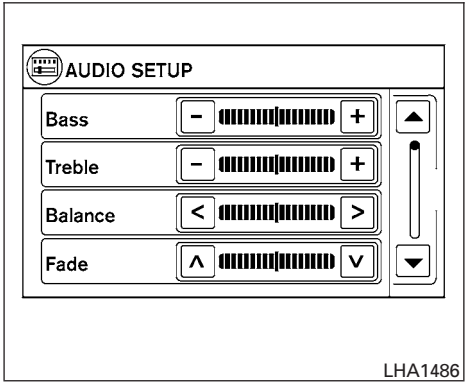
Place the ignition switch in the ACC or ON position and push the VOL/ON·OFF control knob while the system is off to call up the mode (radio, CD, AUX, USB or iPod®) that was playing immediately before the system was turned off.

To turn the system off, press the VOL/ON·OFF control knob.

Information Provided by:

Turn the VOL/ON·OFF control knob to adjust the volume.

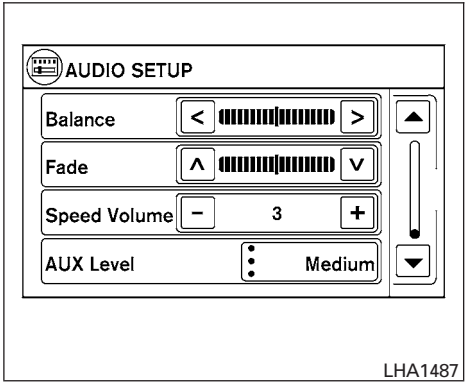
This vehicle may be equipped with Speed Volume for audio. When this feature is active, the audio volume changes as the driving speed changes.



Audio settings:

Press the SETUP button to display the audio settings on the screen. These settings can also be displayed by pressing the AUDIO button (TUNE/SCROLL knob). Use the touchscreen to adjust the following items to the desired setting:

Bass, Treble, Balance and Fade:
Controls the sound of the audio system. Balance adjusts the sound between the left and right speakers. Fade adjusts the sound between the front and rear speakers.



Speed Volume:
Controls the level to which the volume is adjusted as the vehicle's driving speed changes. Choose a setting between 1 and 5 or choose 0 to disable the feature entirely.

AUX Level:
Controls the volume level of incoming sound when an auxiliary device is connected to the system. Available options are Quiet, Medium and Loud.

Information Provided by:

FM/AM/SAT radio operation

FM·AM button:

Press the FM·AM button to change the band as follows:

AM → FM1 → FM2 → AM

If another audio source is playing when the FM·AM button is pressed, the audio source playing will automatically be turned off and the last radio station played will begin playing.

The FM stereo indicator (ST) is shown on the screen during FM stereo reception. When the stereo broadcast signal is weak, the radio automatically changes from stereo to monaural reception.

XM band select:

Pressing the XM button will change the band as follows:

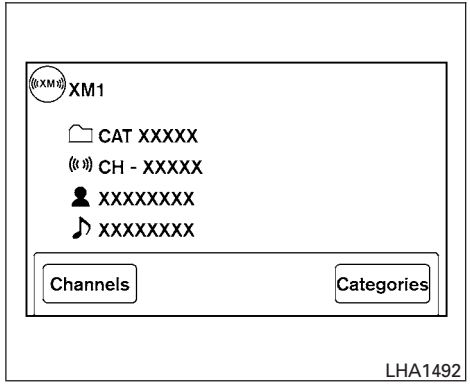
XM1* → XM2* → XM3* → XM1* (satellite, if so equipped)

When the XM button is pressed while the ignition switch is in the ACC or ON position, the radio will come on at the last station played.

The last station played will also come on when the VOL/ON-OFF control knob is pressed to turn the radio on.

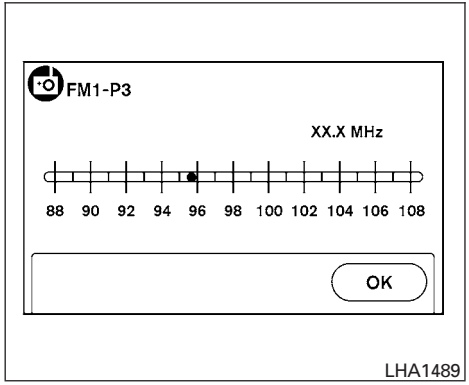
*When the XM button is pressed, the satellite radio mode will be skipped unless an optional satellite receiver and antenna are installed and a SiriusXM Satellite Radio service subscription is active. Satellite radio is not available in Alaska, Hawaii and Guam.

If a compact disc is playing when the XM button is pressed, the compact disc will automatically be turned off and the last radio station played will come on.



While the radio is in XM mode, the operation can be controlled through the touchscreen. Touch the “Channels” key to display a list of channels. Touch a channel displayed on the list to change to that channel. Touch the “Categories” key to display a list of categories. Touch a category displayed on the list to display options within that category.

Information Provided by:



Tuning with the touchscreen:

When in AM or FM mode, the radio can be tuned using the touchscreen. To bring up the visual tuner, touch the “Tune” key on the lower right corner of the screen. A screen appears with a bar running from low frequencies on the left to high frequencies on the right. Touch the screen at the location of the frequency you wish to tune and the station will change to that frequency. To return to the regular radio display screen, touch the “OK” key.

Tuning with the TUNE/SCROLL knob:

The radio can also be manually tuned using the TUNE/SCROLL knob. When in FM or AM mode, turn the TUNE/SCROLL knob to the left for lower frequencies or to the right for higher frequencies. When in XM mode, turn the TUNE/SCROLL knob to change the channel.

SEEK tuning:

When in FM or AM mode, press the SEEK/CATEGORY button ◄ or ► to tune from low to high or high to low frequencies and to stop at the next broadcasting station.

When in XM mode, press the SEEK/CATEGORY button ◄ or ► to change the category.

1 to 6 Station memory operations:

Twelve stations can be set for the FM band (6 for FM1, 6 for FM2) and six stations can be set for the AM band. Eighteen stations can be set for the XM band (6 for XM1, 6 for XM2, 6 for XM3).

1. Choose the radio band AM, FM1 or FM2 using the FM·AM select button or choose the radio band XM1, XM2 or XM3 using the XM button.
2. Tune to the desired station using manual or seek tuning. Press and hold any of the desired station memory buttons (1 – 6) until a beep sound is heard.
3. The channel indicator will then come on and the sound will resume. Programming is now complete.
4. Other buttons can be set in the same manner.

If the battery cable is disconnected or if the fuse opens, the radio memory will be canceled. In that case, reset the desired stations.

Compact disc (CD) player operation

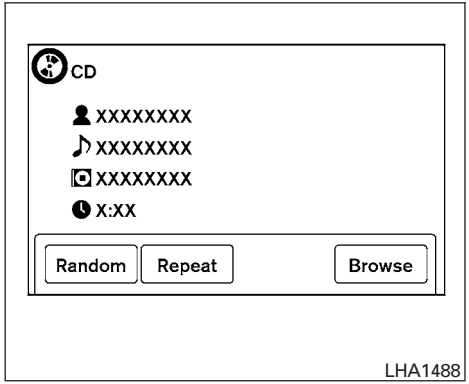
If the radio is already operating, it automatically turns off and the compact disc begins to play.

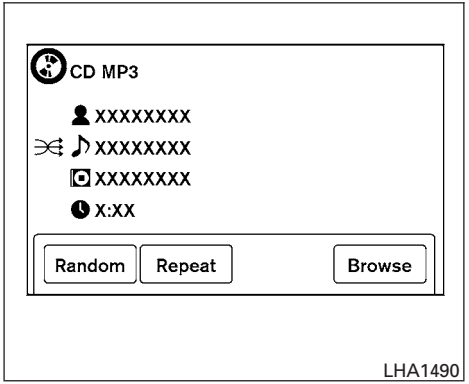
CD button:

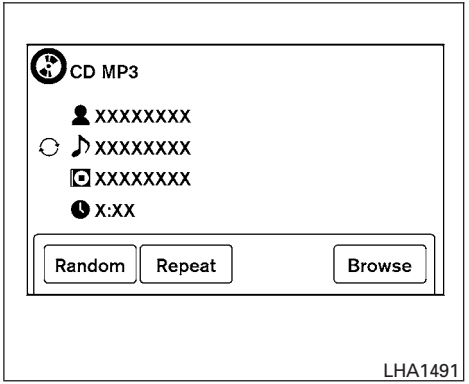
When the CD button is pressed with the system off and the compact disc loaded, the system will turn on and the compact disc will start to play.

When the CD button is pressed with a compact disc loaded and the radio playing, the radio will automatically be turned off and the compact disc will start to play.

Information Provided by:
DEALER







CD/MP3 display mode

While listening to a CD or an MP3/WMA CD, certain text may be displayed (when a CD encoded with text is being used). Depending on how the CD or MP3/WMA CD is encoded, the text is displayed listing the artist, album and song title.

There are other keys displayed on the screen when a CD is playing:

Random:
Touch the “Random” key to apply a random play pattern to the CD. When the random mode is active, the icon will be displayed to the left of the song title. If an MP3 CD is playing, touching “Random” alternates between randomly playing songs within the current folder and songs from the CD as a whole. The icon is displayed to the left of the song title or folder name to denote which pattern is applied. To cancel Random mode, touch the “Random” key until no icon is displayed.

Repeat:
Touch the “Repeat” key to apply a repeat play pattern to the CD. When the repeat mode is active, the icon will be displayed to the left of the song title. If an MP3 CD is playing, touching “Repeat” alternates between repeating the current song and repeating the current folder. The icon is displayed to the left of the song title or folder name to denote which pattern is applied. To cancel Repeat mode, touch the “Repeat” key until no icon is displayed.

Information Provided by:

Browse:
Touch the “Browse” key to display the titles on the CD in list format. Touch the title of a song in the list to begin playing that song. If an MP3 CD is playing, touching the “Browse” key will also list the folders on the disc. Follow the procedure for selecting a song with the touchscreen to choose a folder.

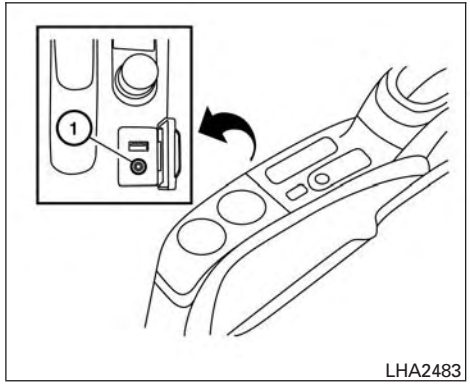
SEEK/CATEGORY (Reverse or Fast Forward) button:

Press and hold the SEEK/CATEGORY button ◄ or ► for 1.5 seconds while the compact disc is playing to reverse or fast forward the track being played. The compact disc plays at an increased speed while reversing or fast forwarding. When the button is released, the compact disc returns to normal play speed.

SEEK/CATEGORY button:

Press the SEEK/CATEGORY button ◄ while a CD or MP3/WMA CD is playing to return to the beginning of the current track. Press the SEEK/CATEGORY button ◄ several times to skip backward several tracks.

Press the SEEK/CATEGORY button ► while a CD or MP3/WMA CD is playing to advance one track. Press the SEEK/CATEGORY button ► several times to skip forward several tracks. If the last track on a CD is skipped, the first track on the disc is played. If the last track in a folder of an MP3/WMA CD is skipped, the first track of the next folder is played.

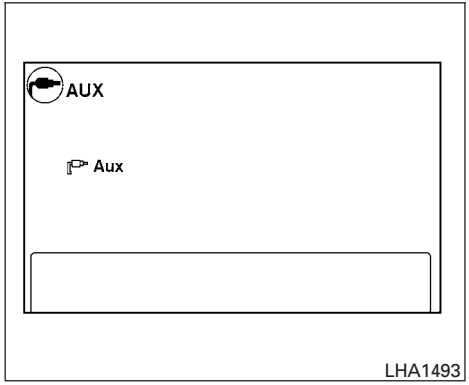


AUX button:

The AUX IN jack is located on the center console near the parking brake and power outlet. Open the cover to access the AUX jack ①. The AUX IN audio input jack accepts any standard analog audio input such as from a portable cassette tape/CD player, MP3 player or a laptop computer.

Press the AUX button to play a compatible device plugged into the AUX IN jack. The AUX button is also used to switch the audio system to a source plugged into the USB input jack in the center console. When a device is plugged into the AUX IN jack while another device is plugged into the USB input jack, the AUX button is used to toggle between the two functions.

Information Provided by:
DEALER



For more information about the USB input jack, see “USB interface” in this section.

EJECT button:

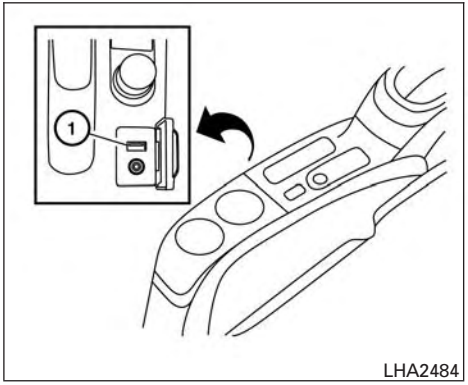
When the ⏏ button is pressed with a compact disc loaded, the compact disc will eject and the last source will be played.

When the ⏏ button is pressed twice with a compact disc loaded, the compact disc will be ejected further for easier CD removal. If the disc is not removed within 10 seconds, the disc will reload.

Additional features

For more information about the iPod® player available with this system, see “iPod® player operation with Navigation System” in this section.

For more information about the USB interface available with this system, see “USB interface” in this section.



USB INTERFACE (models with Navigation System)

Information Provided by:

Connecting a device to the USB input jack

⚠CAUTION

- **Do not force the USB device into the USB port. Inserting the USB device tilted or up-side-down into the port may damage the USB device and the port. Make sure that the USB device is connected correctly into the USB port. (Some USB devices come with a mark as a guide. Make sure that the mark is facing the correct direction before inserting the device.)**
- **Do not locate objects near the USB device to prevent the objects from leaning on the USB device and the port. Pressure from the objects may damage the USB device and the port.**

The USB input jack is located on the center console near the parking brake and power outlet. Open the protective cover ① on the USB jack, then insert the USB device into the jack.

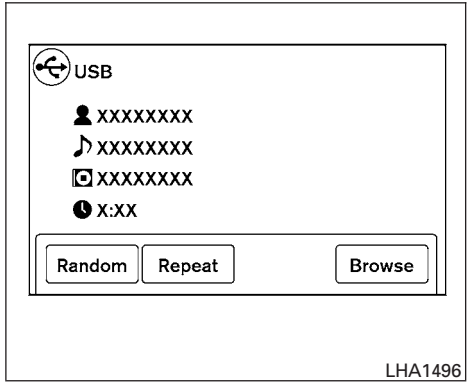
When a compatible storage device is plugged into the jack, compatible audio files on the storage device can be played through the vehicle's audio system.

Audio file operation

AUX button:

Place the ignition switch in the ON or ACC position and press the AUX button to switch to the USB input mode. If another audio source is playing and a USB memory device is inserted, press the AUX button repeatedly until the center display changes to the USB memory mode.

If the system has been turned off while the USB memory was playing, push the ON-OFF/VOL control knob to restart the USB memory.



Play information:

Information about the audio files being played is shown on the display screen of the vehicle's audio system. Touch "Browse" to display the list of folders and files on the USB device. Touch the name of a song on the screen to begin playing that song.

SEEK/CATEGORY button:

Press the SEEK/CATEGORY button ◄ while an audio file on the USB device is playing to return to the beginning of the current track. Press the SEEK/CATEGORY button ◄ several times to skip backward several tracks.

Information Provided by:

Press the SEEK/CATEGORY button ▶ while an audio file on the USB device is playing to advance one track. Press the SEEK/CATEGORY button ▶ several times to skip forward several tracks. If the last track in a folder on the USB device is skipped, the first track of the next folder is played.

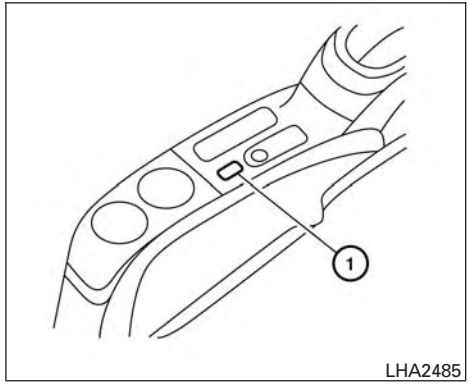
Press and hold the SEEK/CATEGORY button ◀ or ▶ for 1.5 seconds while an audio file on the USB device is playing to reverse or fast forward the track being played. The track plays at an increased speed while reversing or fast forwarding. When the button is released, the audio file returns to normal play speed.

Random and repeat play mode:

While files on a USB device are playing, the play pattern can be altered so that songs are repeated or played randomly.

Random:
Touch the “Random” key to apply a random play pattern to the USB device. When the random mode is active, the icon is displayed to the left of the song title or album name to denote which random pattern is applied. To cancel Random mode, touch the “Random” key until no icon is displayed.

Repeat:
Touch the “Repeat” key to apply a repeat play pattern to the USB device. When the repeat mode is active, the icon is displayed to the left of the song title or album name to denote which repeat pattern is applied. To cancel Repeat mode, touch the “Repeat” key until no icon is displayed.



iPod®* PLAYER OPERATION WITHOUT NAVIGATION SYSTEM (if so equipped)

Information Provided by:

Connecting iPod®

⚠ CAUTION

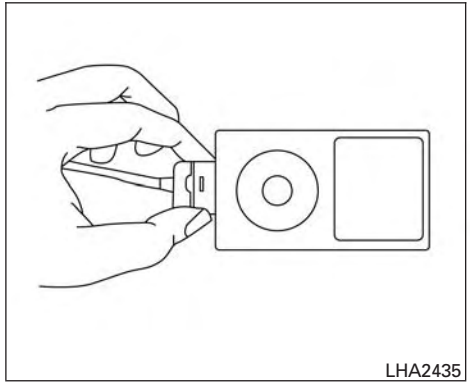
- **Do not force the iPod® cable into the USB port. Inserting the USB device tilted or up-side-down into the port may damage the iPod® cable and the port. Make sure that the iPod® cable is connected correctly into the USB port. (Some iPod® cables come with a mark as a guide. Make sure that the mark is facing the correct direction before inserting the iPod® cable.)**
- **Do not locate objects near the iPod® cable to prevent the objects from leaning on the iPod® cable and the port. Pressure from the objects may damage the iPod® cable and the port.**

To connect an iPod® to the vehicle so that the iPod® can be controlled with the audio system controls, use the jack located on the center console near the parking brake and power outlet. Open the protective cover on the jack and then connect the iPod®-specific end of the cable to the iPod® and the other end of the cable to the jack on the vehicle ①. If compatible, the battery of your iPod® will be charged while connected to the vehicle with the ignition switch in the ACC or ON position.

While connected to the vehicle, the iPod® can only be operated by the vehicle audio controls.

To disconnect the iPod® from the vehicle, remove the end of the cable plugged into the jack on the vehicle, then remove the cable from the iPod®.

- Make sure the iPod® cable connector and device port are clean and free of obstructions before inserting the connector into the device.
- Make sure the iPod® cable connector and device port are correctly aligned before connecting the cable to the device.


LHA2435

- To remove the iPod® cable, press the locking tabs and pull the iPod® cable connector straight out from the device.

* iPod® is a trademark of Apple Inc., registered in the U.S. and other countries.

Compatibility

The following models are compatible:

- iPod® Classic - 1st through 6th generation
- iPod® Mini - 1st and 2nd generation
- iPod® Nano - 1st through 3rd generation
- iPod® Touch - 1st generation
- iPhone® - 1st generation

Information Provided by:

Make sure that your iPod® firmware is updated to the version indicated above.

Audio main operation

iPod® button:

Place the ignition switch in the ACC or ON position and press the iPod® button to switch to the iPod® mode.

If another audio source is playing and the iPod® is connected, press the iPod® button to switch to the iPod® mode.

If the system is turned off while the iPod® is playing, the iPod® will start when the PWR button is pressed.

Top menu item selecting:

Press the iPod® MENU button while the iPod® is connected to show the interface for iPod® operation on the audio display. The items can be chosen from the menu list screen by pressing the SEEK button ▲ or ▼ while the iPod® is operational. The display pattern can be changed as follows:

Playlists → Artists → Albums → Songs → Podcasts → Genres → Composers → Audiobooks

For more information about each item, see the iPod® owner's manual.

ENTER and BACK buttons:

Press the ENTER button while the top menu is displayed to show program details on the audio display. Use the SEEK buttons ▲ or ▼ to scroll through the choices and press the ENTER button to make a selection. Press the BACK button to return to the previous display.

iPod® play information:

Press the DISP TEXT button for less than 1.5 seconds while a program is playing to change the displayed program information as follows:

Excluding Podcast:

Album Title → Artist Name → Song Title → Normal Mode

Podcast:

Album Title → Song Title → Normal Mode

For more information about Podcasts, see the iPod® owner's manual.

TUNE/FF-REW/FOLDER button:

When the TUNE/FF-REW/FOLDER button is pressed ▲ or ▼ for more than 1.5 seconds while the iPod® is playing, the iPod® will play while fast forwarding or reversing. When the button is released, the iPod® will return to the normal play speed.

When the TUNE/FF-REW/FOLDER button is pressed ▲ or ▼ for less than 1.5 seconds while the iPod® is playing, the next track or the beginning of the current track on the iPod® will be played.

SCAN/RPT button:

Press the SCAN/RPT button while a track is playing to change the play pattern as follows:

Excluding Podcast and Audiobook:

ALL RPT → TRK RPT → ALL RDM → ALBUM RDM

Podcast:

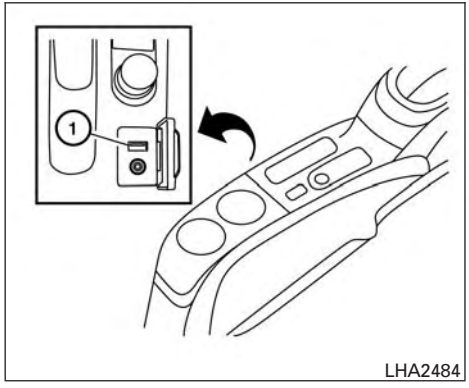
ALL RPT ⟷ TRK RPT

For more information about Podcasts, see the iPod® owner's manual.

Audiobook:

NORMAL → FAST → SLOW

Information Provided by:



iPod®* PLAYER OPERATION WITH NAVIGATION SYSTEM (if so equipped)

Connecting iPod®

⚠CAUTION

- **Do not force the iPod® cable into the USB port. Inserting the USB device tilted or up-side-down into the port may damage the iPod® cable and the port. Make sure that the iPod® cable is connected correctly into the USB port. (Some iPod® cables come with a mark as a guide. Make sure that the mark is facing the correct direction before inserting the iPod® cable.)**
- **Do not locate objects near the iPod® cable to prevent the objects from leaning on the iPod® cable and the port. Pressure from the objects may damage the iPod® cable and the port.**

To connect an iPod® to the vehicle so that the iPod® can be controlled with the audio system controls and display screen, use the USB jack located on the center console near the parking brake and power outlet. Open the protective cover on the USB jack and then connect the iPod®-specific end of the cable to the iPod® and the USB end of the cable to the USB jack on the vehicle ①. If your iPod® supports charging via a USB connection, its battery will be charged while connected to the vehicle with the ignition switch in the ACC or ON position.

While connected to the vehicle, the iPod® can only be operated by the vehicle audio controls.

To disconnect the iPod® from the vehicle, remove the USB end of the cable from the USB jack on the vehicle, then remove the cable from the iPod®.

* iPod® is a trademark of Apple Inc., registered in the U.S. and other countries.

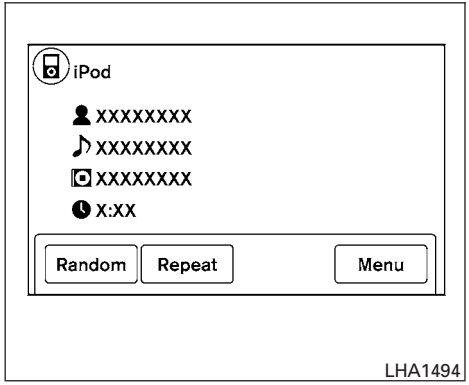
Compatibility

The following models are compatible:

- iPod® Classic - 5th generation
- iPod® Nano - 1st through 2nd generation

Make sure that your iPod® firmware is updated to the version indicated above.

Information Provided by:
DEALER



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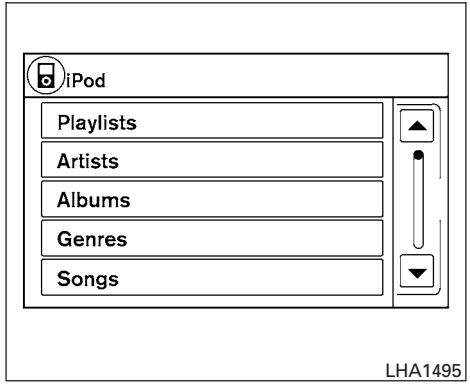
Audio main operation

AUX button:

Place the ignition switch in the ACC or ON position and press the AUX button repeatedly until the iPod® mode is displayed on the screen.

If another audio source is playing and the iPod® is connected, press the AUX button repeatedly to switch to the iPod® mode.

If the vehicle audio system is turned off while the iPod® is playing, the iPod® will start when the VOL/ON-OFF control knob is pressed.



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Interface:

The interface for iPod® operation shown on the vehicle's audio system display screen is similar to the iPod® interface. Use the touchscreen, ⮌ BACK button or the TUNE/SCROLL knob to navigate the menus on the screen.

When the iPod® is playing, touch the "Menu" key to bring up the iPod® interface.

Depending on the iPod® model, the following items may be available on the menu list screen. For further information about each item, see the iPod® Owner's Manual.

- Playlists
- Artists
- Albums
- Genres
- Songs
- Composers
- Audiobooks
- Podcasts

SEEK/CATEGORY button:

Press the SEEK/CATEGORY button ◄ or ► to skip backward or forward one track.

Press and hold the SEEK/CATEGORY button ◄ or ► for 1.5 seconds while a track is playing to reverse or fast forward the track being played. The track plays at an increased speed while reversing or fast forwarding. When the button is released, the track returns to normal play speed.

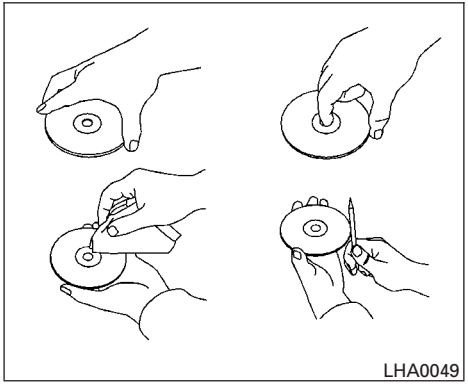
Random and repeat play mode:

While the iPod® is playing, the play pattern can be altered so that songs are repeated or played randomly.

Information Provided by:

Random:
Touch the “Random” key to apply a random play pattern to the iPod®. When the random mode is active, the icon is displayed to the left of the song title or album name to denote which random pattern is applied. To cancel Random mode, touch the “Random” key until no icon is displayed.

Repeat:
Touch the “Repeat” key to apply a repeat play pattern to the iPod®. When the repeat mode is active, the icon is displayed to the left of the song title or album name to denote which repeat pattern is applied. To cancel Repeat mode, touch the “Repeat” key until no icon is displayed.


LHA0049

CD CARE AND CLEANING

- Handle a CD by its edges. Do not bend the disc. Never touch the surface of the disc.
- Always place the discs in the storage case when they are not being used.
- To clean a disc, wipe the surface from the center to the outer edge using a clean, soft cloth. Do not wipe the disc using a circular motion.
- Do not use a conventional record cleaner or alcohol intended for industrial use.
- A new disc may be rough on the inner and outer edges. Remove the rough edges by rubbing the inner and outer edges with the side of a pen or pencil as illustrated.

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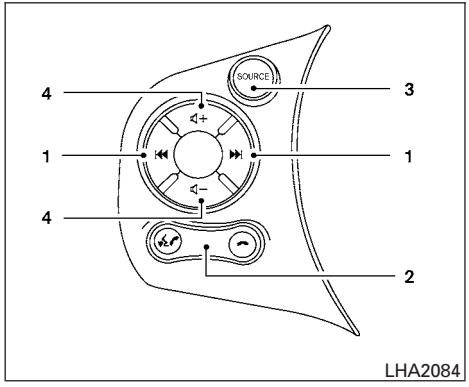

1. Tuning switch
2. Phone operation switches
3. POWER on and SOURCE select switch
4. Volume control switches

STEERING WHEEL SWITCH FOR AUDIO CONTROL (if so equipped)

The audio system can be operated using the controls on the steering wheel.

POWER on switch

With the ignition switch in the ACC or ON position, push the POWER switch to turn the audio system on.

SOURCE select switch (models without Navigation System)

Push the SOURCE select switch to change the mode in the following sequence: AM → FM → CD* → iPod®* (if so equipped) → AUX* → AM

* These modes are only available when compatible media storage is inserted into the device.

SOURCE select switch (models with Navigation System)

Push the SOURCE select switch to change the audio mode in the following sequence: AM/FM → XM → CD* → USB/AUX* → AM/FM.

* These modes are only available when compatible media storage is inserted into the device.

Volume control switches

Push the volume control switch to increase or decrease the volume.

⏮ ⏭ Tuning

Memory change (radio):

While in one of the preset radio station banks (A, B or C), push the tuning switch ⏮ or ⏭ for less than 1.5 seconds to change to the next preset station in memory.

Seek tuning (radio):

Push the tuning switch ⏮ or ⏭ for more than 1.5 seconds to seek the next or previous radio station.

Next/Previous track (CD):

Push the tuning switch ⏮ or ⏭ for less than 1.5 seconds to return to the beginning of the present track or skip to the next track. Push several times to skip back or skip through tracks.

ANTENNA

The antenna cannot be shortened, but can be removed. When you need to remove the antenna, turn the antenna rod counterclockwise.

To install the antenna rod, turn the antenna rod clockwise and hand tighten.

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⚠ CAUTION

- **Always properly tighten the antenna rod during installation or the antenna rod may break during vehicle operation.**
- **Be sure that the antenna is removed before the vehicle enters an automatic car wash.**
- **Be sure to fold down the antenna before the vehicle enters a garage with a low ceiling.**

When installing a CB, ham radio or car phone in your vehicle, be sure to observe the following precautions; otherwise, the new equipment may adversely affect the engine control system and other electronic parts.

⚠ WARNING

- **A cellular phone should not be used for any purpose while driving so full attention may be given to vehicle operation. Some jurisdictions prohibit the use of cellular phones while driving.**
- **If you must make a call while your vehicle is in motion, the hands free cellular phone operational mode (if so equipped) is highly recommended. Exercise extreme caution at all times so full attention may be given to vehicle operation.**
- **If you are unable to devote full attention to vehicle operation while talking on the phone, pull off the road to a safe location and stop your vehicle.**

⚠ CAUTION

- **Keep the antenna as far away as possible from the electronic control modules.**
- **Keep the antenna wire more than 8 in (20 cm) away from the electronic control system harnesses. Do not route the antenna wire next to any harness.**
- **Adjust the antenna standing-wave ratio as recommended by the manufacturer.**
- **Connect the ground wire from the CB radio chassis to the body.**
- **For details, consult a NISSAN dealer.**

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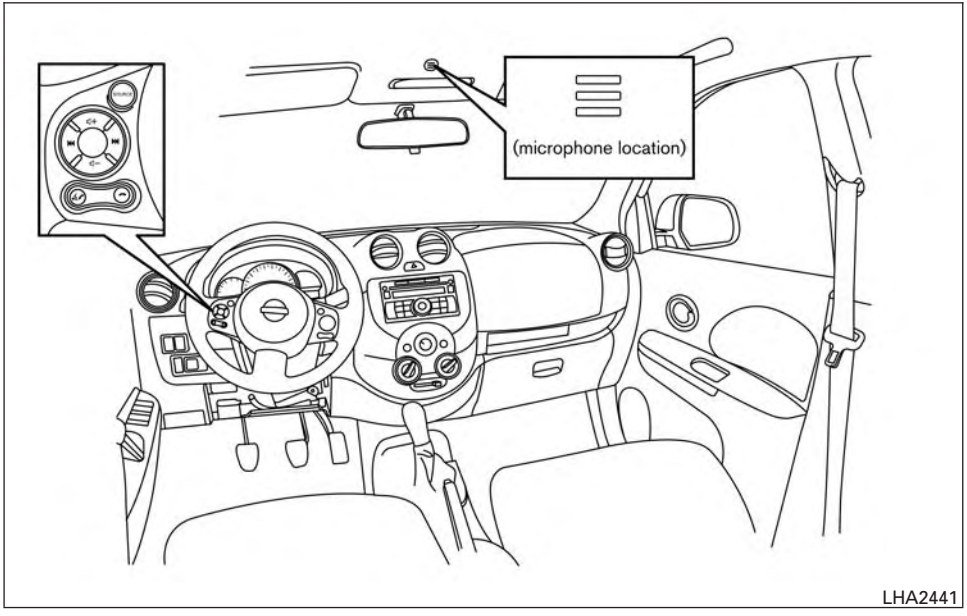
BLUETOOTH® HANDS-FREE PHONE SYSTEM (if so equipped)

⚠ WARNING

- **Use a phone after stopping your vehicle in a safe location. If you have to use a phone while driving, exercise extreme caution at all times so full attention may be given to vehicle operation.**
- **If you are unable to devote full attention to vehicle operation while talking on the phone, pull off the road to a safe location and stop your vehicle.**

⚠ CAUTION

To avoid discharging the vehicle battery, use a phone after starting the engine.



LHA2441

Your NISSAN is equipped with the Bluetooth® Hands-Free Phone System. If you have a compatible Bluetooth® enabled cellular phone, you can set up the wireless connection between your cellular phone and the in-vehicle phone module. With Bluetooth® wireless technology, you can make or receive a hands-free telephone call with your cellular phone in the vehicle.

Once your cellular phone is connected to the in-vehicle phone module, no other phone connecting procedure is required. Your phone is automatically connected with the in-vehicle phone module when

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the ignition switch is placed in the ON position with the previously connected cellular phone turned on and carried in the vehicle.

You can connect up to 5 different Bluetooth® cellular phones to the in-vehicle phone module. However, you can talk on only one cellular phone at a time.

Before using the Bluetooth® Hands-Free Phone System, refer to the following notes.

- Set up the wireless connection between a cellular phone and the in-vehicle phone module before using the hands-free phone system.
- Some Bluetooth® enabled cellular phones may not be recognized by the in-vehicle phone module. Please visit www.nissanusa.com/bluetooth for a recommended phone list and connecting instructions.
- You will not be able to use a hands-free phone under the following conditions:
  - Your vehicle is outside of the cellular service area.
  - Your vehicle is in an area where it is difficult to receive a cellular signal; such as in a tunnel, in an underground parking garage, near a tall building or in a mountainous area.
  - Your cellular phone is locked to prevent it from being dialed.
- When the radio wave condition is not ideal or ambient sound is too loud, it may be difficult to hear the other person's voice during a call.
- Do not place the cellular phone in an area surrounded by metal or far away from the in-vehicle phone module to prevent tone quality degradation and wireless connection disruption.
- While a cellular phone is connected through the Bluetooth® wireless connection, the battery power of the cellular phone may discharge quicker than usual. The Bluetooth® Hands-Free Phone System cannot charge cellular phones.
- If the hands-free phone system seems to be malfunctioning, see "Troubleshooting guide" later in this section. You can also visit www.nissanusa.com/bluetooth for troubleshooting help.
- Some cellular phones or other devices may cause interference or a buzzing noise to come from the audio system speakers. Storing the device in a different location may reduce or eliminate the noise.
- Refer to the cellular phone Owner's Manual regarding the telephone charges, cellular phone antenna and body, etc.

REGULATORY INFORMATION

FCC Regulatory information

- CAUTION: To maintain compliance with FCC's RF exposure guidelines, use only the supplied antenna. Unauthorized antenna, modification, or attachments could damage the transmitter and may violate FCC regulations.
- Operation is subject to the following two conditions:
  1. This device may not cause interference and
  2. this device must accept any interference, including interference that may cause undesired operation of the device.

IC Regulatory information

- Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.
- This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

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BLUETOOTH® is a trademark owned by Bluetooth SIG, Inc. and licensed to Visteon.

USING THE SYSTEM

The NISSAN Voice Recognition system allows hands-free operation of the Bluetooth® Phone System.

If the vehicle is in motion, some commands may not be available so full attention may be given to vehicle operation.

Initialization

When the ignition switch is placed in the ON position, NISSAN Voice Recognition is initialized, which takes a few seconds. If the button is pressed before the initialization completes, the system will announce “Hands-free phone system not ready” and will not react to voice commands.

Operating tips

To get the best performance out of the NISSAN Voice Recognition system, observe the following:

- Keep the interior of the vehicle as quiet as possible. Close the windows to eliminate surrounding noises (traffic noises, vibration sounds, etc.), which may prevent the system from recognizing voice commands correctly.
- Wait until the tone sounds before speaking a command. Otherwise, the command will not be received properly.
- Start speaking a command within 5 seconds after the tone sounds.
- Speak in a natural voice without pausing between words.

Giving voice commands

To operate NISSAN Voice Recognition, press and release the button located on the steering wheel. After the tone sounds, speak a command.

The command given is picked up by the microphone, and voice feedback is given when the command is accepted.

- If you need to hear the available commands for the current menu again, say “Help” and the system will repeat them.
- If a command is not recognized, the system announces, “Command not recognized. Please try again.” Make sure the command is said exactly as prompted by the system and repeat the command in a clear voice.
- If you want to go back to the previous command, you can say “Go back” or “Correction” any time the system is waiting for a response.
- You can cancel a command when the system is waiting for a response by saying, “Cancel” or “Quit.” The system announces “Cancel” and ends the VR session. You can also press and hold the button on the steering wheel for 5 seconds at any time to end the VR session. Whenever the VR session is cancelled, a double beep is played to indicate you have exited the system.
- If you want to adjust the volume of the voice feedback, press the volume control switches (+ or -) on the steering wheel while being provided with feedback. You can also use the radio volume control knob.
- In most cases you can interrupt the voice feedback to speak the next command by pressing the button on the steering wheel.

- To use the system faster, you may speak the second level commands with the main menu command on the main menu. For example, press the button and after the tone say, “Call Redial.”

How to say numbers

NISSAN Voice Recognition requires a certain way to speak numbers in voice commands. Refer to the following rules and examples.

- Either “zero” or “oh” can be used for “0”.

  Example: 1-800-662-6200

  – “One eight oh oh six six two six two oh oh”, or

  – “One eight zero zero six six two six two oh oh”

- Words can be used for the first 4 digits places only.

  Example: 1-800-662-6200

  – “One eight hundred six six two six two oh oh”,

  – NOT “One eight hundred six six two sixty two hundred,” and

  – NOT “One eight oh oh six six two sixty two hundred”

- Numbers can be spoken in small groups. The system will prompt you to continue entering digits, if desired.

  Example: 1-800-662-6200

  – “One eight zero zero”

  The system repeats the numbers and prompts you to enter more.

  – “six six two”

  The system repeats the numbers and prompts you to enter more.

  – “six two zero zero”

- Say “pound” for “#”. Say “star” for “*” (available when using the “Special Number” command and the “Send” command during a call).

  See “List of voice commands” and “Special number” in this section for more information.

  Example: 1-555-1212 *123

  – “One five five five one two one two star one two three”

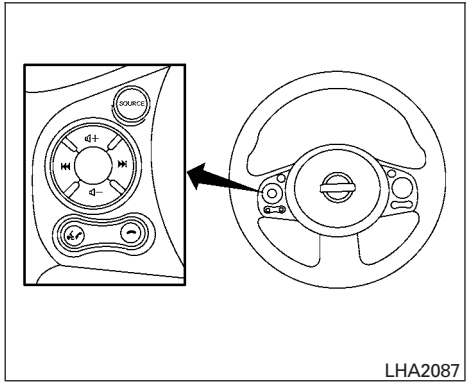
- Say “plus” for “+” (available only when using the “Special Number” command).

- Say “pause” for a 2-second pause (available only when storing a phone book number).

NOTE:

For best results, say phone numbers as single digits.

The voice command “Help” is available at any time. Please use the “Help” command to get information on how to use the system.



CONTROL BUTTONS

The control buttons for the Bluetooth® Hands-Free Phone System are located on the steering wheel.

PHONE/SEND

Press the button to initiate a VR session or answer an incoming call.

You can also use the button to interrupt the system feedback and give a command at once. See “List of voice commands” and “During a call” in this section for more information.

PHONE/END

While the voice recognition system is active, press and hold the button for 5 seconds to quit the voice recognition system at any time.

TUNING SWITCH

While using the voice recognition system, tilt the tuning switch up or down to manually control the phone system.

GETTING STARTED

The following procedures will help you get started using the Bluetooth® Hands-Free Phone System with NISSAN Voice Recognition. For additional command options, refer to “List of voice commands” in this section.

Choosing a language

You can interact with the Bluetooth® Hands-Free Phone System using English, Spanish or French.

To change the language, perform the following.

1. Press and hold the button for more than 5 seconds.
2. The system announces: “Press the PHONE/SEND ( ) button for the hands-free phone system to enter the voice adaptation mode or press the PHONE/END ( ) button to select a different language.”
3. Press the button.

   For information on voice adaptation, see “Voice adaptation (VA) mode” in this section.
4. The system announces the current language and gives you the option to change the language to Spanish (in Spanish) or French (in French). To select the current language, press the PHONE/SEND ( ) button. To select a different language, tilt the tuning switch (or) left or right.

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NOTE:

You must press the button within 5 seconds to change the language.

5. If you decide not to change the language, do not press either button. After 5 seconds, the VR session will end, and the language will not be changed.

Connecting procedure

NOTE:

The connecting procedure must be performed when the vehicle is stationary. If the vehicle starts moving during the procedure, the procedure will be cancelled.

Main Menu
"Connect phone" Ⓐ
"Add phone" Ⓑ
Initiate from handset Ⓒ
Name phone Ⓓ

1. Press the button on the steering wheel. The system announces the available commands.
2. Say: "Connect phone" Ⓐ. The system acknowledges the command and announces the next set of available commands.
3. Say: "Add phone" Ⓑ. The system acknowledges the command and asks you to initiate connecting from the phone handset Ⓒ.

   The connecting procedure of the cellular phone varies according to each cellular phone model. See the cellular phone Owner's Manual for details. You can also visit www.nissanusa.com/bluetooth for instructions on connecting NISSAN recommended cellular phones.

   When prompted for a Passkey code, enter "1234" from the handset. The Passkey code "1234" has been assigned by NISSAN and cannot be changed.
4. The system asks you to say a name for the phone Ⓓ.

   If the name is too long or too short, the system tells you, then prompts you for a name again.

   Also, if more than one phone is connected and the name sounds too much like a name already used, the system tells you, then prompts you for a name again.

Making a call by entering a phone number

Main Menu
"Call" Ⓐ
"Phone Number" Ⓑ
Speak the digits Ⓒ
"Dial" Ⓓ

1. Press the button on the steering wheel. A tone will sound.
2. Say: "Call" Ⓐ. The system acknowledges the command and announces the next set of available commands.
3. Say "Phone Number" Ⓑ. The system acknowledges the command and announces the next set of available commands.

   Say: "Special Number" to dial more than 10 digits or any special characters.
4. Say the number you wish to call starting with the area code in single digit format Ⓒ. If the system has trouble recognizing the correct phone number, try entering the number in the following groups: 3-digit area code, 3-digit prefix and the last 4-digits. For example, 555-121-3354 can be said as "five five five" as the 1st group, then "one two one" as the 2nd group, and "three three five

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four” as the 3rd group. For dialing more than 10 digits or any special characters, say “Special Number”. See “How to say numbers” in this section for more information.

5. When you have finished speaking the phone number, the system repeats it back and announces the available commands.
6. Say: “Dial” Ⓓ. The system acknowledges the command and makes the call.

For additional command options, see “List of voice commands” in this section.

Receiving a call

When you hear the ring tone, press the button on the steering wheel.

Once the call has ended, press the button on the steering wheel.

NOTE:

If you do not wish to take the call when you hear the ring tone, press the button on the steering wheel.

For additional command options, see “List of voice commands” later in this section.

LIST OF VOICE COMMANDS

Main Menu
- “Call”
- “Phonebook”
- “Recent Calls”
- “Connect Phone”

When you press and release the button on the steering wheel, you can choose from the commands on the Main Menu. The following pages describe these commands and the commands in each sub-menu.

Remember to wait for the tone before speaking.

After the main menu, you can say “Help” to hear the list of commands currently available any time the system is waiting for a response.

If you want to end an action without completing it, you can say “Cancel” or “Quit” at any time the system is waiting for a response. The system will end the VR session. Whenever the VR session is cancelled, a double beep is played to indicate you have exited the system.

If you want to go back to the previous command, you can say “Go back” or “Correction” any time the system is waiting for a response.

“Call”

Main Menu
- “Call”
  - (Speak name) Ⓐ
  - “Phone Number”
    - (Speak Digits) Ⓑ
    - “Special Number” Ⓒ
  - “Redial” Ⓓ
  - “Call Back” Ⓔ

(Speak name) Ⓐ

If you have stored entries in the phonebook, you can dial a number associated with a name and location.

See “Phonebook” in this section to learn how to store entries.

When prompted by the system, say the name of the phone book entry you wish to call. The system acknowledges the name.

If there are multiple locations associated with the name, the system asks you to choose the location.

Once you have confirmed the name and location, the system begins the call.

(Speak Digits) Ⓑ

When prompted by the system, say the number you wish to call. Refer to “How to say numbers” and “Making a call by entering a phone number” in this section for more details.

“Special Number” Ⓒ

For dialing more than 10 digits or any special characters, say “Special Number”. When the system acknowledges the command, the system will prompt you to speak the number.

“Redial” Ⓓ

Use the Redial command to call the last number that was dialed.

The system acknowledges the command, repeats the number and begins dialing.

If a redial number does not exist, the system announces, “There is no number to redial” and ends the VR session.

“Call Back” Ⓔ

Use the Call Back command to dial the number of the last incoming call within the vehicle.

The system acknowledges the command, repeats the number and begins dialing.

If a call back number does not exist, the system announces, “There is no number to call back” and ends the VR session.

During a call

During a call there are several command options available. Press the button on the steering wheel to mute the receiving voice and enter commands.

- “Help” — The system announces the available commands.
- “Go back/Correction” — The system announces “Go back,” ends the VR session and returns to the call.
- “Cancel/Quit” — The system announces “Cancel,” ends the VR session and returns to the call.
- “Send/Enter/Call/Dial” — Use the Send command to enter numbers, “*” or “#” during a call. For example, if you were directed to dial an extension by an automated system:

  Say: “Send one two three four.”

  The system acknowledges the command and sends the tones associated with the numbers. The system then ends the VR session and returns to the call. Say “star” for “*”, Say “pound” for “#”.
- “Transfer call” — Use the Transfer Call command to transfer the call from the Bluetooth® Hands-Free Phone System to the cellular phone when privacy is desired.

  The system announces, “Transfer call. Call transferred to privacy mode.” The system then ends the VR session.

  To reconnect the call from the cellular phone to the Bluetooth® Hands-Free System, press the button.
- “Mute” — Use the Mute command to mute your voice so the other party cannot hear it. Use the mute command again to unmute your voice.

NOTE:

If a call is ended or the cellular phone network connection is lost while the Mute feature is on, the Mute feature will be reset to “off” for the next call so the other party can hear your voice.

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“Phonebook” (phones without automatic phonebook download function)

NOTE:

The “Transfer Entry” command is not available when the vehicle is moving.

Main Menu
- “Phonebook”
  - “Transfer Entry” Ⓐ
  - “Delete Entry” Ⓑ
  - “List Names” Ⓒ

For phones that do not support automatic download of the phonebook (PBAP Bluetooth® profile), the “Phonebook” command is used to manually add entries to the vehicle phonebook.

The phonebook stores up to 40 names for each phone connected to the system.

NOTE:

Each phone has its own separate phonebook. You cannot access Phone A’s phonebook if you are currently connected with Phone B.

“Transfer Entry” Ⓐ

Use the Transfer Entry command to store a new name in the system.

When prompted by the system, say the name you would like to give the new entry.

For example, say: “Mary.”

If the name is too long or too short, the system tells you, then prompts you for a name again.

Also, if the name sounds too much like a name already stored, the system tells you, then prompts you for a name again.

The system will ask you to transfer a phone number stored in the cellular phone’s memory.

Enter a phone number by voice command:

For example, say: “five five five one two one two.” See “How to say numbers” in this section for more information.

To transfer a phone number stored in the cellular phone’s memory:

Say “Transfer entry.” The system acknowledges the command and asks you to initiate the transfer from the phone handset. The new contact phone number will be transferred from the cellular phone via the Bluetooth® communication link.

The transfer procedure varies according to each cellular phone. See the cellular phone Owner’s Manual for details. You can also visit www.nissanusa.com/bluetooth for instructions on transferring phone numbers from NISSAN recommended cellular phones.

The system repeats the number and prompts you for the next command. When you have finished entering numbers or transferring an entry, choose “Store.”

The system confirms the name, location and number.

“Delete Entry” Ⓑ

Use the Delete Entry command to erase one entry from the phonebook. After the system recognizes the command, speak the name to delete or say “List Names” to choose an entry.

“List Names” Ⓒ

Use the List Names command to hear all the names in the phonebook.

The system recites the phonebook entries but does not include the actual phone numbers. When the playback of the list is complete, the system goes back to the main menu.

You can stop the playback of the list at any time by pressing the button on the steering wheel. The system ends the VR session.

“Phonebook” (phones with automatic phonebook download function)

NOTE:

The “Transfer Entry” command is not available when the vehicle is moving.

Main Menu
- “Phonebook”
  - Say a Name
  - “List Names” Ⓐ
  - “Record Name” Ⓑ

For phones that support automatic download of the phonebook (PBAP Bluetooth® profile), the “Phonebook” command is used to manage entries in the vehicle phonebook. You can say the name of an entry at this menu to initiate dialing of that entry.

The phonebook stores up to 1000 names for each phone connected to the system.

When a phone is connected to the system, the phonebook is automatically downloaded to the vehicle. This feature allows you to access your phonebook from the Bluetooth® system and call contacts by name. You can record a custom voice tag for contact names that the system has difficulty recognizing. For more information see “Record name” in this section.

NOTE:

Each phone has its own separate phonebook. You cannot access Phone A’s phonebook if you are currently connected with Phone B.

“List Names” Ⓐ

Use the List Names command to hear all the names and locations in the phone book.

The system recites the phone book entries but does not include the actual phone numbers. When the playback of the list is complete, the system goes back to the main menu.

You can stop the playback of the list at any time by pressing the button on the steering wheel. The system ends the VR session. See the “Record name” command in this section for information about recording custom voice tags for list entries that the system has difficulty pronouncing.

“Record Name” Ⓑ

The system allows you to record custom voice tags for contact names in the phonebook that the vehicle has difficulty recognizing. This feature can also be used to record voice tags to directly dial an entry with multiple numbers. Up to 40 voice tags can be recorded to the system.

“Recent Calls”

Main Menu
- “Recent Calls”
  - “Outgoing” Ⓐ
  - “Incoming” Ⓑ
  - “Missed” Ⓒ

Use the Recent Calls command to access outgoing, incoming or missed calls.

“Outgoing” Ⓐ

Use the Outgoing command to list the outgoing calls made from the vehicle.

“Incoming” Ⓑ

Use the Incoming command to list the incoming calls made to the vehicle.

“Missed” Ⓒ

Use the Missed command to list the calls made to the vehicle that were not answered.

“Connect Phone”

NOTE:

The Add Phone command is not available when the vehicle is moving.

Main Menu
- “Connect Phone”
  - “Add Phone” Ⓐ
  - “Select Phone” Ⓑ
  - “Delete Phone” Ⓒ
  - “Turn Bluetooth OFF” Ⓓ

Use the Connect Phone commands to manage the phones connecting to the vehicle or to enable the Bluetooth® function on the vehicle.

“Add Phone” Ⓐ

Use the Add Phone command to add a phone to the vehicle. See “Connecting procedure” in this section for more information.

“Select Phone” Ⓑ

Use the Select Phone command to select from a list of phones connected to the vehicle. The system will list the names assigned to each phone and then prompt you for the phone you wish to select. Only one phone can be active at a time.

“Delete Phone” Ⓒ

Use the Delete Phone command to delete a phone that is connected to the vehicle. The system will list the names assigned to each phone and then prompt you for the phone you wish to delete. Deleting a phone from the vehicle will also delete that phonebook for that phone.

“Turn Bluetooth OFF” Ⓓ

Use the Turn Bluetooth OFF command to prevent a wireless connection to your phone.

VOICE ADAPTATION (VA) MODE

Voice Adaptation allows up to two out-of-dialect users to train the system to improve recognition accuracy. By repeating a number of commands, the users can create a voice model of their own voice that is stored in the system. The system is capable of storing a different voice adaptation model for each connected phone.

Training procedure

The procedure for training a voice is as follows.

1. Position the vehicle in a reasonably quiet outdoor location.
2. Sit in the driver’s seat with the engine running, the parking brake on, and the transmission in P (Park).
3. Press and hold the button for more than 5 seconds.
4. The system announces: “Press the PHONE/SEND ( ) button for the hands-free phone system to enter the voice adaptation mode or press the PHONE/END ( ) button to select a different language.”
5. Press the button.

   For information on selecting a different language, see “Choosing a language” in this section.
6. Voice memory A or memory B is selected automatically. If both memory locations are already in use, the system will prompt you to overwrite one. Follow the instructions provided by the system.
7. When preparation is complete and you are ready to begin, press the button.
8. The VA mode will be explained. Follow the instructions provided by the system.
9. When training is finished, the system will tell you an adequate number of phrases have been recorded.

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10. The system will announce that voice adaptation has been completed and the system is ready.

The VA mode will stop if:

- The button is pressed for more than 5 seconds in VA mode.
- The vehicle begins moving during VA mode.
- The ignition switch is placed in the OFF or LOCK position.

Training phrases

During the VA mode, the system instructs the trainer to say the following phrases. (The system will prompt you for each phrase.)

- phonebook transfer entry
- dial three oh four two nine
- delete call back number
- incoming
- transfer entry
- eight pause nine three two pause seven
- delete all entries
- call seven two four zero nine
- phonebook delete entry
- next entry
- dial star two one seven oh
- yes
- no
- select
- missed
- dial eight five six nine two
- Bluetooth on
- outgoing
- call three one nine oh two
- nine seven pause pause three oh eight
- cancel
- call back number
- call star two zero nine five
- delete phone
- dial eight three zero five one
- record name
- four three pause two nine pause zero
- delete redial number
- phonebook list names
- call eight oh five four one
- correction
- connect phone
- dial seven four oh one eight
- previous entry
- delete
- dial nine seven two six six
- call seven six three oh one
- go back
- call five six two eight zero
- dial six six four three seven

MANUAL CONTROL

While using the voice recognition system, it is possible to select menu options by using the steering wheel controls instead of speaking voice commands. The manual control mode does not allow dialing a phone number by digits. The user may select an entry from the Phonebook or Recent Calls lists. To re-activate voice recognition, exit the manual control mode by pressing and holding the PHONE/END ( ) button. At that time, pressing the PHONE/SEND ( ) button will start the Hands Free Phone System.

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Operating tips

- To enter manual control mode, start the voice recognition system and push the tuning switch (⏮ or ⏭). The system will speak ″Showing Manual Options″ when manual controls are initially activated.
- To browse the menu options, push the tuning switch (⏮ or ⏭). The system will always speak the current menu option. Depending on the audio display, it will also show the current menu option.
- To select the current menu option, press the PHONE/SEND ( ) button.
- To go back to the previous menu, press the PHONE/END ( ) button. If the current menu is the Main Menu, pressing the PHONE/END ( ) button will exit the Phone system.
- To exit the manual control mode, press and hold the PHONE/END ( ) button for 5 seconds.

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TROUBLESHOOTING GUIDE

The system should respond correctly to all voice commands without difficulty. If problems are encountered, try the following solutions.

Where the solutions are listed by number, try each solution in turn, starting with number 1, until the problem is resolved.

Symptom	Solution
System fails to interpret the command correctly.	1. Ensure that the command is valid. See “List of voice commands” in this section.
	2. Ensure that the command is spoken after the tone.
	3. Speak clearly without pausing between words and at a level appropriate to the ambient noise level in the vehicle.
	4. Ensure that the ambient noise level is not excessive (for example, windows open or defroster on). NOTE: If it is too noisy to use the phone, it is likely that the voice commands will not be recognized.
	5. If more than one command was said at a time, try saying the commands separately.
	6. If the system consistently fails to recognize commands, the voice training procedure should be carried out to improve the recognition response for the speaker. See “Voice Adaptation (VA) mode” in this section.
The system consistently selects the wrong entry from the phone book.	1. Ensure that the phone book entry name requested matches what was originally stored. This can be confirmed by using the “List Names” command. See “Phonebook” in this section.
	2. Replace one of the names being confused with a new name.

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5 Starting and driving

Precautions when starting and driving 5-2
Exhaust gas (carbon monoxide) 5-2
Three-way catalyst 5-2
Tire Pressure Monitoring System (TPMS) (if so equipped) 5-3
Avoiding collision and rollover 5-5
Off-road recovery 5-5
Rapid air pressure loss 5-6
Drinking alcohol/drugs and driving 5-7
Ignition switch (if so equipped) 5-7
Continuously Variable Transmission (CVT) (if so equipped) 5-7
Manual transmission (if so equipped) 5-8
Ignition switch positions 5-8
NISSAN Vehicle Immobilizer System (if so equipped) 5-9
Push-Button Ignition Switch (if so equipped) 5-9
Operating range 5-10
Push-button ignition switch positions 5-10
Emergency engine shut off 5-11
NISSAN Intelligent Key® battery discharge 5-11
NISSAN vehicle immobilizer system 5-12
Before starting the engine 5-12
Starting the engine (models without NISSAN Intelligent Key® system) 5-13
Starting the engine (model with NISSAN Intelligent Key® system) 5-14
Driving the vehicle 5-15
Continuously Variable Transmission (CVT) (if so equipped) 5-15
Manual transmission (if so equipped) 5-18
Parking brake 5-19
Cruise control (if so equipped) 5-20
Precautions on cruise control 5-20
Cruise control operations 5-21
Break-in schedule 5-22
Fuel efficient driving tips 5-22
Increasing fuel economy 5-24
Parking/parking on hills 5-24
Power steering 5-25
Brake system 5-26
Brake precautions 5-26
Anti-lock Braking System (ABS) 5-27
Vehicle Dynamic Control (VDC) system 5-28
Cold weather driving 5-30
Freeing a frozen door lock 5-30
Anti-freeze 5-30

Information Pr... DEALER E-PROCESS

Battery 5-30
Draining of coolant water 5-30
Tire equipment 5-30
Special winter equipment. 5-30
Driving on snow or ice 5-30
Engine block heater (if so equipped) 5-31

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⚠WARNING

- **Do not leave children or adults who would normally require the assistance of others alone in your vehicle. Pets should also not be left alone. They could accidentally injure themselves or others through inadvertent operation of the vehicle. Also, on hot, sunny days, temperatures in a closed vehicle could quickly become high enough to cause severe or possibly fatal injuries to people or animals.**
- **Properly secure all cargo to help prevent it from sliding or shifting. Do not place cargo higher than the seatbacks. In a sudden stop or collision, unsecured cargo could cause personal injury.**

EXHAUST GAS (carbon monoxide)

⚠WARNING

- **Do not breathe exhaust gases; they contain colorless and odorless carbon monoxide. Carbon monoxide is dangerous. It can cause unconsciousness or death.**
- **If you suspect that exhaust fumes are entering the vehicle, drive with all windows fully open, and have the vehicle inspected immediately.**
- **Do not run the engine in closed spaces such as a garage.**
- **Do not park the vehicle with the engine running for any extended length of time.**
- **Keep the rear vent windows, lift gates, doors and trunk lids (if so equipped) closed while driving, otherwise exhaust gases could be drawn into the passenger compartment. If you must drive with one of these open, follow these precautions:**
  1. **Open all the windows.**
  2. **Turn the air recirculation mode off and set the fan speed control to the highest level to circulate the air.**
- **The exhaust system and body should be inspected by a qualified mechanic whenever:**
  a. **The vehicle is raised for service.**
  b. **You suspect that exhaust fumes are entering into the passenger compartment.**
  c. **You notice a change in the sound of the exhaust system.**
  d. **You have had an accident involving damage to the exhaust system, underbody, or rear of the vehicle.**

THREE-WAY CATALYST

The three-way catalyst is an emission control device installed in the exhaust system. Exhaust gases in the three-way catalyst are burned at high temperatures to help reduce pollutants.

⚠WARNING

- **The exhaust gas and the exhaust system are very hot. Keep people, animals or flammable materials away from the exhaust system components.**
- **Do not stop or park the vehicle over flammable materials such as dry grass, waste paper or rags. They may ignite and cause a fire.**

⚠CAUTION

- **Do not use leaded gasoline. Deposits from leaded gasoline will seriously reduce the three-way catalyst's ability to help reduce exhaust pollutants.**

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- **Keep your engine tuned up. Malfunctions in the ignition, fuel injection, or electrical systems can cause overrich fuel flow into the three-way catalyst, causing it to overheat. Do not keep driving if the engine misfires, or if noticeable loss of performance or other unusual operating conditions are detected. Have the vehicle inspected promptly by a NISSAN dealer.**
- **Avoid driving with an extremely low fuel level. Running out of fuel could cause the engine to misfire, damaging the three-way catalyst.**
- **Do not race the engine while warming it up.**
- **Do not push or tow your vehicle to start the engine.**

TIRE PRESSURE MONITORING SYSTEM (TPMS) (if so equipped)

Each tire, including the spare (if provided), should be checked monthly when cold and inflated to the inflation pressure recommended by the vehicle manufacturer on the vehicle placard or tire inflation pressure label. (If your vehicle has tires of a different size than the size indicated on the vehicle placard or tire inflation pressure label, you should determine the proper tire inflation pressure for those tires.)

As an added safety feature, your vehicle has been equipped with a Tire Pressure Monitoring System (TPMS) that illuminates a low tire pressure telltale when one or more of your tires is significantly under-inflated. Accordingly, when the low tire pressure telltale illuminates, you should stop and check your tires as soon as possible, and inflate them to the proper pressure. Driving on a significantly under-inflated tire causes the tire to overheat and can lead to tire failure. Under-inflation also reduces fuel efficiency and tire tread life, and may affect the vehicle's handling and stopping ability.

Please note that the TPMS is not a substitute for proper tire maintenance, and it is the driver's responsibility to maintain correct tire pressure, even if under-inflation has not reached the level to trigger illumination of the TPMS low tire pressure telltale.

Your vehicle has also been equipped with a TPMS malfunction indicator to indicate when the system is not operating properly. The TPMS malfunction indicator is combined with the low tire pressure telltale. When the system detects a malfunction, the telltale will flash for approximately one minute and then remain continuously illuminated. This sequence will continue upon subsequent vehicle start-ups as long as the malfunction exists. When the malfunction indicator is illuminated, the system may not be able to detect or signal low tire pressure as intended. TPMS malfunctions may occur for a variety of reasons, including the installation of replacement or alternate tires or wheels on the vehicle that prevent the TPMS from functioning properly. Always check the TPMS malfunction telltale after replacing one or more tires or wheels on your vehicle to ensure that the replacement or alternate tires and wheels allow the TPMS to continue to function properly.

Additional information:

- **The TPMS does not monitor the tire pressure of the spare tire.**
- The TPMS will activate only when the vehicle is driven at speeds above 16 MPH (25 km/h). Also, this system may not detect a sudden drop in tire pressure (for example a flat tire while driving).

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- The low tire pressure warning light does not automatically turn off when the tire pressure of your tires are adjusted. After the tires are inflated to the recommended pressure, the vehicle must be driven at speeds above 16 MPH (25 km/h) to activate the TPMS and turn off the low tire pressure warning light. Use a tire pressure gauge to check the tire pressure.
- Tire pressure rises and falls depending on the heat caused by the vehicle's operation and the outside temperature. Low outside temperature can lower the temperature of the air inside the tire which can cause a lower tire inflation pressure. This may cause the low tire pressure warning light to illuminate. If the warning light illuminates, check the tire pressure for all four tires.
- The Tire and Loading Information label (also referred to as the vehicle placard or tire inflation pressure label) is located in the driver's door opening.

For additional information, see "Low tire pressure warning light" in the "Instruments and controls" section and "Tire Pressure Monitoring System (TPMS)" in the "In case of emergency" section.

⚠ WARNING

- **If the low tire pressure warning light illuminates while driving, avoid sudden steering maneuvers or abrupt braking, reduce vehicle speed, pull off the road to a safe location and stop the vehicle as soon as possible. Driving with under-inflated tires may permanently damage the tires and increase the likelihood of tire failure. Serious vehicle damage could occur and may lead to an accident and could result in serious personal injury. Check the tire pressure for all four tires. Adjust the tire pressure to the recommended COLD tire pressure shown on the Tire and Loading Information label to turn the low tire pressure warning light OFF. If you have a flat tire, replace it with a spare tire as soon as possible. (See "Flat tire" in the "In case of emergency" section for changing a flat tire.)**
- **When a spare tire is mounted or a wheel is replaced, the TPMS will not function and the low tire pressure warning light will flash for approximately 1 minute. The light will remain on after 1 minute. Contact your NISSAN dealer as soon as possible for tire replacement and/or system resetting.**
- **Replacing tires with those not originally specified by NISSAN could affect the proper operation of the TPMS.**
- **Do not inject any tire liquid or aerosol tire sealant into the tires, as this may cause a malfunction of the tire pressure sensors.**

⚠ CAUTION

Do not place metalized film or any metal parts (antenna, etc.) on the windows. This may cause poor reception of the signals from the tire pressure sensors, and the TPMS will not function properly.

Some devices and transmitters may temporarily interfere with the operation of the TPMS and cause the low tire pressure warning light to illuminate.

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Some examples are:

– Facilities or electric devices using similar radio frequencies are near the vehicle.
– If a transmitter set to similar frequencies is being used in or near the vehicle.
– If a computer (or similar equipment) or a DC/AC converter is being used in or near the vehicle.

FCC Notice:

For USA:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. **This device may not cause harmful interference, and**
2. **This device must accept any interference received, including interference that may cause undesired operation. Note: Changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.**

For Canada:

This device complies with RSS-210 of Industry Canada. Operation is subject to the following two conditions:

1. **This device may not cause interference, and**
2. **This device must accept any interference, include interference that may cause undesired operation of the device.**
3. **The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.**

AVOIDING COLLISION AND ROLLOVER

⚠WARNING

Failure to operate this vehicle in a safe and prudent manner may result in loss of control or an accident.

Be alert and drive defensively at all times. Obey all traffic regulations. Avoid excessive speed, high speed cornering, or sudden steering maneuvers, because these driving practices could cause you to lose control of your vehicle. **As with any vehicle, loss of control could result in a collision with other vehicles or objects or cause the vehicle to roll over, particularly if the loss of control causes the vehicle to slide sideways.** Be attentive at all times, and avoid driving when tired. Never drive when under the influence of alcohol or drugs (including prescription or over-the-counter drugs which may cause drowsiness). Always wear your seat belt as outlined in the "Safety – Seats, seat belts and supplemental restraint system" section of this manual, and also instruct your passengers to do so.

Seat belts help reduce the risk of injury in collisions and rollovers. **In a rollover crash, an unbelted or improperly belted person is significantly more likely to be injured or killed than a person properly wearing a seat belt.**

OFF-ROAD RECOVERY

If the right side or left side wheels unintentionally leave the road surface, maintain control of the vehicle by following the procedure below. Please note that this procedure is only a general guide. The vehicle must be driven as appropriate based on the conditions of the vehicle, road and traffic.

1. Remain calm and do not overreact.
2. Do not apply the brakes.

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3. Maintain a firm grip on the steering wheel with both hands and try to hold a straight course.
4. When appropriate, slowly release the accelerator pedal to gradually slow the vehicle.
5. If there is nothing in the way, steer the vehicle to follow the road while vehicle speed is reduced. Do not attempt to drive the vehicle back onto the road surface until vehicle speed is reduced.
6. When it is safe to do so, gradually turn the steering wheel until both tires return to the road surface. When all tires are on the road surface, steer the vehicle to stay in the appropriate driving lane.

- If you decide that it is not safe to return the vehicle to the road surface based on vehicle, road or traffic conditions, gradually slow the vehicle to a stop in a safe place off the road.

RAPID AIR PRESSURE LOSS

Rapid air pressure loss or a “blow-out” can occur if the tire is punctured or is damaged due to hitting a curb or pothole. Rapid air pressure loss can also be caused by driving on under-inflated tires.

Rapid air pressure loss can affect the handling and stability of the vehicle, especially at highway speeds.

Help prevent rapid air pressure loss by maintaining the correct air pressure and visually inspect the tires for wear and damage. See “Wheels and tires” in the “Maintenance and do-it-yourself” section of this manual. If a tire rapidly loses air pressure or “blows-out” while driving, maintain control of the vehicle by following the procedure below. Please note that this procedure is only a general guide. The vehicle must be driven as appropriate based on the conditions of the vehicle, road and traffic.

⚠ WARNING

The following actions can increase the chance of losing control of the vehicle if there is a sudden loss of tire air pressure. Losing control of the vehicle may cause a collision and result in personal injury.

- **The vehicle generally moves or pulls in the direction of the flat tire.**
- **Do not rapidly apply the brakes.**
- **Do not rapidly release the accelerator pedal.**
- **Do not rapidly turn the steering wheel.**

1. Remain calm and do not over react.
2. Maintain a firm grip on the steering wheel with both hands and try to hold a straight course.
3. When appropriate, slowly release the accelerator pedal to gradually slow the vehicle.
4. Gradually steer the vehicle to a safe location off the road and away from traffic if possible.
5. Lightly apply the brake pedal to gradually stop the vehicle.
6. Turn on the hazard warning flashers and either contact a roadside emergency service to change the tire or see “Changing a flat tire” in the “In case of emergency” section of this manual.

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DRINKING ALCOHOL/DRUGS AND DRIVING

⚠WARNING

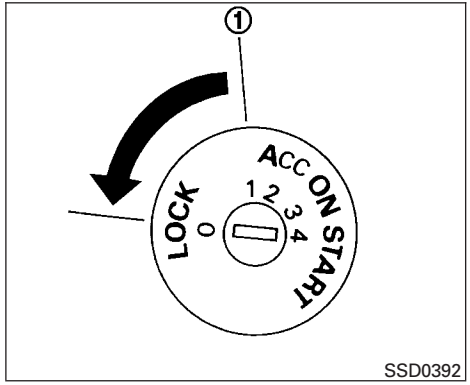
Never drive under the influence of alcohol or drugs. Alcohol in the bloodstream reduces coordination, delays reaction time and impairs judgement. Driving after drinking alcohol increases the likelihood of being involved in an accident injuring yourself and others. Additionally, if you are injured in an accident, alcohol can increase the severity of the injury.

NISSAN is committed to safe driving. However, you must choose not to drive under the influence of alcohol. Every year thousands of people are injured or killed in alcohol-related accidents. Although the local laws vary on what is considered to be legally intoxicated, the fact is that alcohol affects all people differently and most people underestimate the effects of alcohol.

Remember, drinking and driving don't mix! And that is true for drugs, too (over-the-counter, prescription, and illegal drugs). Don't drive if your ability to operate your vehicle is impaired by alcohol, drugs, or some other physical condition.

⚠WARNING

- **Never remove the ignition key or place the ignition switch in the LOCK position while driving. The steering wheel will lock. This may cause the driver to lose control of the vehicle and could result in serious vehicle damage or personal injury.**



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CONTINUOUSLY VARIABLE TRANSMISSION (CVT) (if so equipped)

The ignition lock is designed so that the ignition switch cannot be turned to the LOCK position until the shift selector is moved to the P (Park) position.

- When placing the ignition switch in the LOCK position, make sure that the shift selector is in the P (Park) position
- When removing the key from the ignition switch (if it is inserted), make sure that the shift selector is in the P (Park) position.

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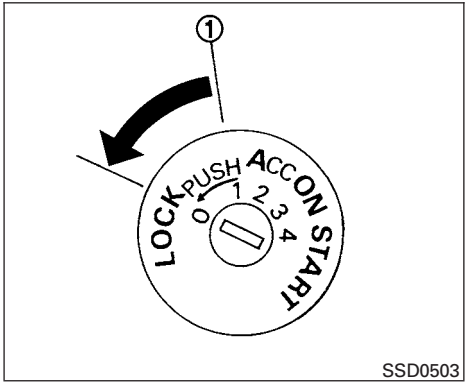
When the ignition switch cannot be placed to the LOCK position:

1. Shift the shift selector to the P (Park) position.
2. Move the ignition switch slightly in the ON direction.
3. Turn the ignition switch to the LOCK position.
4. Remove the key if it is inserted in the ignition switch.

If the ignition switch is placed to the LOCK position, the shift selector cannot be moved from the P (Park) position.

The shift selector can be moved if the ignition switch is in the ON position and the foot brake pedal is depressed.

There is an OFF position ① between the LOCK and ACC positions. The OFF position is indicated by a "1" on the key cylinder.



MANUAL TRANSMISSION (if so equipped)

The ignition switch includes a device that helps prevent accidental removal of the key while driving.

The key can only be removed when the ignition switch is in the LOCK position.

In order for the steering wheel to be locked, it must be turned about 1/8 of a turn clockwise from the straight up position.

To lock the steering wheel, place the ignition switch in the LOCK position. Remove the key. To unlock the steering wheel, insert the key and turn it gently while rotating the steering wheel slightly right and left.

IGNITION SWITCH POSITIONS

LOCK: Normal parking position (0)

OFF: (1)

The engine can be turned off without locking the steering wheel.

ACC: (Accessories) (2)

This position activates electrical accessories such as the radio when the engine is not running.

ON: Normal operating position (3)

This position turns on the ignition system and the electrical accessories.

START: (4)

This position starts the engine. As soon as the engine has started, release the key. It automatically returns to the ON position.

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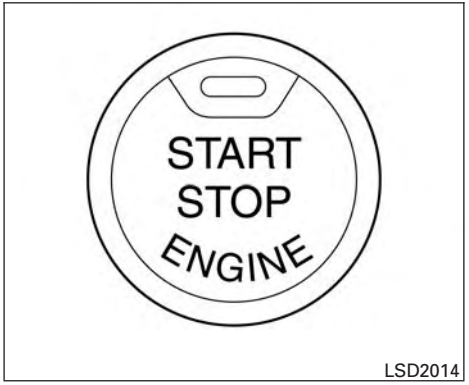
NISSAN VEHICLE IMMOBILIZER SYSTEM (if so equipped)

The NISSAN Vehicle Immobilizer System will not allow the engine to start without the use of the registered key.

If the engine fails to start using a registered key (for example, when interference is caused by another registered key, an automated toll road device or automatic payment device on the key ring), restart the engine using the following procedures:

1. Leave the ignition switch in the ON position for approximately 5 seconds.
2. Turn the ignition switch to the OFF or LOCK position, and wait approximately 10 seconds.
3. Repeat steps 1 and 2.
4. Restart the engine while holding the device (which may have caused the interference) separate from the registered key.

If the no start condition re-occurs, NISSAN recommends placing the registered key on a separate key ring to avoid interference from other devices.



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⚠WARNING

Do not operate the push-button ignition switch while driving the vehicle except in an emergency. (The engine will stop when the ignition switch is pushed 3 consecutive times in quick succession or the ignition switch is pushed and held for more than 2 seconds.) If the engine stops while the vehicle is being driven, this could lead to a crash and serious injury.

When the ignition switch is pushed without depressing the brake pedal or the clutch pedal (MT), the ignition switch position will illuminate as follows:

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Push center

- once to change to ACC.
- two times to change to ON.
- three times to return to OFF.

The ignition switch will automatically return to the LOCK position when any door is either opened or closed with the switch in the OFF position.

The ignition lock is designed so that the ignition switch position cannot be switched to OFF until the shift selector is moved to the P (Park) position or N (Neutral) position (MT).

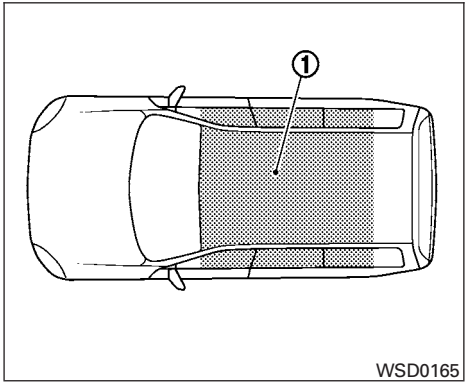
When the ignition switch cannot be pushed toward the OFF position, proceed as follows:

1. Move the shift selector into the P (Park) position or N (Neutral) position (MT).
2. Push the ignition switch. The ignition switch position will change to the ON position.
3. Push the ignition switch again to the OFF position.

The shift selector can be moved from the P (Park) position if the ignition switch is in the ON position and the brake pedal is depressed.

If the battery of the vehicle is discharged, the push-button ignition switch cannot be moved from the LOCK position.

Some indicators and warnings for operation are displayed in the meter. See “Warning/indicator lights and audible reminders” in the “Instruments and controls” section.



OPERATING RANGE

The Intelligent Key functions can only be used when the Intelligent Key is within the specified operating range.

When the Intelligent Key battery is almost discharged or strong radio waves are present near the operating location, the Intelligent Key system’s operating range becomes narrower and may not function properly.

If the Intelligent Key is within the operating range, it is possible for anyone, even someone who does not carry the Intelligent Key, to turn the ignition switch to start the engine.

The operating range of the engine start function is inside of the vehicle ①.

- If the Intelligent Key is placed on the instrument panel, rear parcel shelf, inside the glove box, storage bin or door pocket, the Intelligent Key may not function.
- If the Intelligent Key is placed near the door or window outside the vehicle, the Intelligent Key may function.

PUSH-BUTTON IGNITION SWITCH POSITIONS

LOCK (Normal parking position):

The ignition switch can only be locked in this position.

The ignition switch will be unlocked when it is pushed to the ACC position while carrying the Intelligent Key or with the Intelligent Key inserted in the port.

The ignition switch will lock when any door is opened or closed with the ignition switched off.

OFF:

The ignition switch is in the OFF position when the engine is turned off using the ignition switch. No lights will illuminate on the ignition switch.

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ACC (Accessories):

This position activates electrical accessories, such as the radio, when the engine is not running.

ACC has a battery saver feature that will turn the ignition switch to the OFF position after 30 minutes under the following conditions:

- all doors are closed.
- shift selection lever is in P (Park).

The battery saver feature will be cancelled if any of the following occur:

- any door is opened.
- shift selection lever is moved out of P (Park).
- ignition switch changes position.

ON (Normal operating position):

This position turns on the ignition system and electrical accessories.

⚠ CAUTION

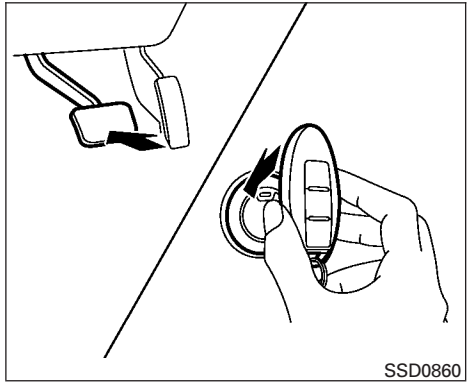
Do not leave the vehicle with the ignition switch in ACC or ON positions when the engine is not running for an extended period. This can discharge the battery.

EMERGENCY ENGINE SHUT OFF

To shut off the engine in an emergency situation while driving, perform the following procedure:

– Rapidly push the push-button ignition switch 3 consecutive times in less than 1.5 seconds, or

– Push and hold the push-button ignition switch for more than 2 seconds.



NISSAN INTELLIGENT KEY® BATTERY DISCHARGE

If the battery of the NISSAN Intelligent Key® is discharged, or environmental conditions interfere with the Intelligent Key operation, start the engine according to the following procedure:

1. Move the selector lever to the “P” (Park) or “N” (Neutral) position.
2. Firmly apply the foot brake.
3. Touch the ignition switch with the NISSAN Intelligent Key ® as illustrated. (A chime will sound.)

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4. Push the ignition switch while depressing the brake pedal within 10 seconds after the chime sounds. The engine will start.

After step 3 is performed, when the ignition switch is pushed without depressing the brake pedal, the ignition switch position will change to “ACC”.

NOTE:

- When the ignition switch is pushed to the “ACC” or “ON” position or the engine is started by the above procedures, the NISSAN Intelligent Key® system warning light may blink in yellow (on the meter) even if the NISSAN Intelligent Key® is inside the vehicle. This is not a malfunction. To stop the warning light from blinking, touch the ignition switch with the NISSAN Intelligent Key® again.
- If the NISSAN Intelligent Key® system warning light in the meter is blinking in green, replace the battery as soon as possible. See “Battery replacement” in the “Maintenance and do-it-yourself” section.

NISSAN VEHICLE IMMOBILIZER SYSTEM

The NISSAN Vehicle Immobilizer system will not allow the engine to start without the use of the registered key.

If the engine fails to start using a registered key (for example, when interference is caused by another registered key, an automated toll road device or automatic payment device on the key ring), restart the engine using the following procedure:

1. Leave the ignition switch in the ON position for approximately 5 seconds.
2. Place the ignition switch in the OFF or LOCK position, and wait approximately 10 seconds.
3. Repeat steps 1 and 2.
4. Restart the engine while holding the device (which may have caused the interference) separate from the registered key.

If the no start condition re-occurs, NISSAN recommends placing the registered key on a separate key ring to avoid interference from other devices.

- Make sure the area around the vehicle is clear.
- Check fluid levels such as engine oil, coolant, brake and clutch fluid(if so equipped), and windshield-washer fluid as frequently as possible, or at least whenever you refuel.
- Check that all windows and lights are clean.
- Visually inspect tires for their appearance and condition. Also check tires for proper inflation.
- Lock all doors.
- Position seat and adjust head restraints.
- Adjust inside and outside mirrors.
- Fasten seat belts and ask all passengers to do likewise.
- Check the operation of warning lights when the ignition switch is placed in the ON position. See “Warning/indicator lights and audible reminders” in the “Instruments and controls” section of this manual.

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STARTING THE ENGINE (models without NISSAN Intelligent Key® system)

1. Apply the parking brake.
2. **Automatic Transmission / CVT models:**

   Move the shift selector lever to P (Park) or N (Neutral). P (Park) is recommended.

   The shift selector lever cannot be moved out of P (Park) and into any of the other gear positions if the ignition key is turned to the OFF position or if the key is removed from the ignition switch.

   The starter is designed not to operate if the shift selector lever is in any of the driving positions.

   Manual transmission model:

   Move the shift selector lever to N (Neutral). Depress the clutch pedal to the floor while cranking the engine.

   The starter is designed not to operate unless the clutch pedal is fully depressed.
3. Crank the engine **with your foot off the accelerator pedal** by turning the ignition key to START. Release the key when the engine starts. If the engine starts, but fails to run, repeat the above procedure.

- If the engine is very hard to start in extremely cold weather or when restarting, depress the accelerator pedal a little (approximately 1/3 to the floor) and hold it and then crank the engine. Release the key and the accelerator pedal when the engine starts.
- If the engine is very hard to start because it is flooded, depress the accelerator pedal all the way to the floor and hold it. Crank the engine for 5-6 seconds. After cranking the engine, release the accelerator pedal. Crank the engine **with your foot off the accelerator pedal** by turning the ignition key to START. Release the key when the engine starts. If the engine starts, but fails to run, repeat the above procedure.

⚠CAUTION

Do not operate the starter for more than 15 seconds at a time. If the engine does not start, turn the key off and wait 10 seconds before cranking again, otherwise the starter could be damaged.

4. Allow the engine to idle for at least 30 seconds after starting. Do not race the engine while warming it up. Drive at moderate speed for a short distance first, especially in cold weather.

NOTE:

Care should be taken to avoid situations that can lead to potential battery discharge and potential no-start conditions such as: 1. Installation or extended use of electronic accessories that consume battery power when the engine is not running (Phone chargers, GPS, DVD players, etc.) 2. Vehicle is not driven regularly and/or only driven short distances. In these cases, the battery may need to be charged to maintain battery health.

Information Provided by: DEALER E-PROCESS

STARTING THE ENGINE (model with NISSAN Intelligent Key® system)

1. Apply the parking brake.
2. Move the shift selector to P (Park) or N (Neutral). P (Park) is recommended.

   The starter is designed not to operate if the shift selector is in any of the driving positions.
3. Push the ignition switch to the ON position. Depress the brake pedal and push the ignition switch to start the engine.

   To start the engine immediately, push and release the ignition switch while depressing the brake pedal with the ignition switch in any position.

   - If the engine is very hard to start in extremely cold weather or when restarting, depress the accelerator pedal a little (approximately 1/3 to the floor) and while holding, crank the engine. Release the accelerator pedal when the engine starts.
   - If the engine is very hard to start because it is flooded, depress the accelerator pedal all the way to the floor and hold it. Push the ignition switch to the ON position to start cranking the engine. After 5 or 6 seconds, stop cranking by pushing the ignition switch to LOCK. After cranking the engine, release the accelerator pedal. Crank the engine with your foot off the accelerator pedal by depressing the brake pedal and pushing the push-button ignition switch to start the engine. If the engine starts, but fails to run, repeat the above procedure.

⚠CAUTION

Do not operate the starter for more than 15 seconds at a time. If the engine does not start, push the ignition switch to the OFF position and wait 10 seconds before cranking again, otherwise the starter could be damaged.

4. **Warm-up**

   Allow the engine to idle for at least 30 seconds after starting. Do not race the engine while warming it up. Drive at moderate speed for a short distance first, especially in cold weather. In cold weather, keep the engine running for a minimum of 2 - 3 minutes before shutting it off. Starting and stopping the engine over a short period of time may make the vehicle more difficult to start.
5. To stop the engine, shift the shift selector to the P (Park) position and push the ignition switch to the OFF position.

NOTE:

Care should be taken to avoid situations that can lead to potential battery discharge and potential no-start conditions such as:

1. Installation or extended use of electronic accessories that consume battery power when the engine is not running (Phone chargers, GPS, DVD players, etc.)
2. Vehicle is not driven regularly and/or only driven short distances. In these cases, the battery may need to be charged to maintain battery health.

Information Provided by: DEALER E-PROCESS

CONTINUOUSLY VARIABLE TRANSMISSION (CVT) (if so equipped)

⚠ WARNING

- **Do not depress the accelerator pedal while shifting from P (Park) or N (Neutral) to R (Reverse), D (Drive) or L (Low). Always depress the brake pedal until shifting is completed. Failure to do so could cause you to lose control and have an accident.**
- **Cold engine idle speed is high, so use caution when shifting into a forward or reverse gear before the engine has warmed up.**
- **Do not downshift abruptly on slippery roads. This may cause a loss of control.**
- **Never shift to P (Park) or R (Reverse) while the vehicle is moving. This could cause an accident.**
- **Except in an emergency, do not shift to the N (Neutral) position while driving. Doing so can cause a loss of engine braking which may result in a collision, serious personal injury or death. In addition, coasting with the transmission in the N (Neutral) position may cause serious damage to the transmission.**

⚠ CAUTION

When stopping the vehicle on an uphill grade, do not hold the vehicle by depressing the accelerator pedal. The foot brake should be used for this purpose.

The CVT in your vehicle is electronically controlled to produce maximum power and smooth operation.

The recommended operating procedures for this transmission are shown on the following pages. Follow these procedures for maximum vehicle performance and driving enjoyment.

NOTE:

Engine power may be automatically reduced to protect the CVT if the engine speed increases quickly when driving on slippery roads or while being tested on some dynamometers.

Starting the vehicle

1. After starting the engine, fully depress the foot brake pedal before moving the shift selector out of the P (Park) position.
2. Keep the foot brake pedal depressed and move the shift selector into a driving gear.
3. Release the foot brake, then gradually start the vehicle in motion.
4. Stop the vehicle completely before shifting the selector to the P (Park) position.

The CVT is designed so the foot brake pedal MUST be depressed before shifting from P (Park) to any drive position while the ignition switch is in the ON position.

The shift selector cannot be moved out of P (Park) and into any of the other gear positions if the ignition switch is placed in the LOCK, OFF or ACC position or if the key is removed.

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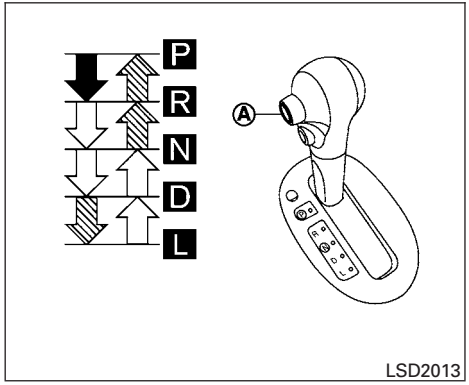


To move the shift selector:

- Push the button Ⓐ while depressing the brake pedal
- Push the button Ⓐ to shift
- Shift without pushing button Ⓐ

Shifting

After starting the engine, fully depress the brake pedal and move the shift selector from P (Park) to any of the desired shift positions.

⚠WARNING

Apply the parking brake if the shift selector is in any position while the engine is not running. Failure to do so could cause the vehicle to move unexpectedly or roll away and result in serious personal injury or property damage.

If the ignition switch is placed in the OFF or ACC position for any reason while the vehicle is in N (Neutral), or any drive position, the key cannot be turned to the LOCK position and be removed from the ignition switch. If this occurs, perform the following steps:

1. Apply the parking brake when the vehicle is stopped.
2. Move the shift selector to P (Park) to park the vehicle and place the ignition switch in the LOCK position to remove the key.

P (Park):

⚠CAUTION

To prevent transmission damage, use the P (Park) or R (Reverse) position only when the vehicle is completely stopped.

Use the P (Park) shift selector position when the vehicle is parked or when starting the engine. Make sure the vehicle is completely stopped. **The brake pedal must be depressed and the shift selector button pushed in to move the shift selector from N (Neutral) or any drive position to P (Park).** Apply the parking brake. When parking on a hill, apply the parking brake first, then place the shift selector into the P (Park) position.

R (Reverse):

⚠CAUTION

To prevent transmission damage, use the P (Park) or R (Reverse) position only when the vehicle is completely stopped.

Use the R (Reverse) position to back up. Make sure the vehicle is completely stopped before selecting the R (Reverse) position. R (Reverse) speed is limited to 30 MPH (48 km/h). Do not exceed 30 MPH (48 km/h) in the R (Reverse) position. **The brake pedal must be depressed and the shift selector button pushed in to move the shift selector from P (Park), N (Neutral) or any drive position to R (Reverse).**

N (Neutral):

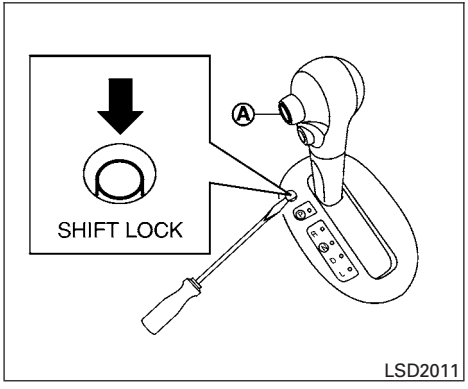
Neither forward nor reverse gear is engaged. The engine can be started in this position. You may shift to N (Neutral) and restart a stalled engine while the vehicle is moving.

D (Drive):

Use this position for all normal forward driving.

L (Low):

Use this position for engine braking on steep downhill gradients/climbing steep slopes and whenever approaching sharp bends. Do not use the L (Low) position in any other circumstances.



Shift lock release

If the battery is discharged, the shift selector may not be moved from the P (Park) position even with the foot brake pedal depressed.

To move the shift selector, perform the following procedure:

1. Place the ignition switch to the LOCK position and remove the key.
2. Apply the parking brake.
3. Remove the shift lock release cover using a suitable tool.
4. Push down the shift lock release using a suitable tool.
5. Push the shift selector button and move the shift selector to the N (Neutral) position while holding down the shift lock release.

Place the ignition switch in the ON position to unlock the steering wheel. The vehicle may be moved to the desired location.

Replace the removed shift lock release cover after the operation.

If the shift selector cannot be moved out of the P (Park) position, have a NISSAN dealer check the CVT system as soon as possible.

Accelerator downshift — in D position —

For passing or hill climbing, depress the accelerator pedal to the floor. This shifts the transmission down into a lower gear, depending on the vehicle speed.

Fail-safe

When the fail-safe operation occurs, the CVT will not be shifted into the selected driving position.

If the vehicle is driven under extreme conditions, such as excessive wheel spinning and subsequent hard braking, the fail-safe system may be activated. The MIL may

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come on to indicate the fail-safe mode is activated, see “Malfunction Indicator Light (MIL)” in the “Instruments and controls” section. This will occur even if all electrical circuits are functioning properly. In this case, place the ignition switch in the OFF position and wait for 10 seconds. Then place the ignition switch back in the ON position. The vehicle should return to its normal operating condition. If it does not return to its normal operating condition, have a NISSAN dealer check the transmission and repair if necessary.

⚠WARNING

When the high fluid temperature protection mode or fail-safe operation occurs, vehicle speed may be gradually reduced. The reduced speed may be lower than other traffic, which could increase the chance of a collision. Be especially careful when driving. If necessary, pull to the side of the road at a safe place and allow the transmission to return to normal operation, or have it repaired if necessary.

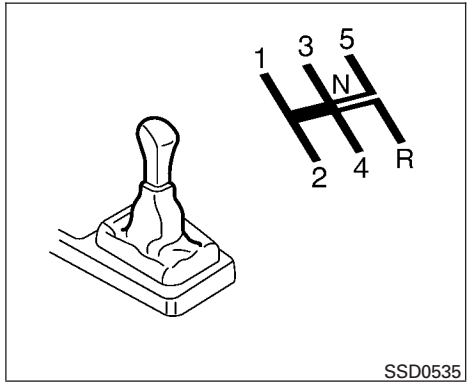
MANUAL TRANSMISSION (if so equipped)

⚠WARNING

- **Do not downshift abruptly on slippery roads. This may cause a loss of control.**
- **Do not over-rev the engine when shifting to a lower gear. This may cause a loss of control or engine damage.**
- **Do not shift to the N (Neutral) position while driving. Doing so may result in an accident due to loss of engine braking.**

⚠CAUTION

- **Do not rest your foot on the clutch pedal while driving. This may cause clutch damage.**
- **Fully depress the clutch pedal before shifting to help prevent transmission damage.**
- **Stop your vehicle completely before shifting into R (Reverse).**
- **When the vehicle is stopped with the engine running (for example, at a stop light), shift to N (Neutral) and release the clutch pedal with the foot brake applied.**



Shifting

To change gears, or when upshifting or downshifting, depress the clutch pedal fully, shift into the appropriate gear, then release the clutch slowly and smoothly.

To ensure smooth gear changes, fully depress the clutch pedal before operating the shift selector. If the clutch pedal is not fully depressed before the transmission is shifted, a gear noise may be heard. Transmission damage could occur.

Start the vehicle in 1st gear and shift to 2nd, 3rd, 4th up to 5th gear in sequence according to vehicle speed.

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On the manual transmission, you cannot shift directly from 5th gear into R (Reverse). First shift into N (Neutral), then into R (Reverse).

The shift selector ring returns to its original position when the shift selector is moved to the N (Neutral) position.

If it is difficult to move the shift selector into R (Reverse) or 1 (1st), shift into N (Neutral), then release the clutch pedal. Depress the clutch pedal again and shift into R (Reverse) or 1 (1st).

Suggested up-shift speeds

The following are suggested vehicle speeds for shifting into a higher gear. These suggestions relate to fuel economy and vehicle performance. Actual upshift speeds will vary according to road conditions, the weather and individual driving habits.

For normal acceleration in low altitude areas (less than 4,000 ft [1219 m]):

GEAR CHANGE	MPH (km/h)
1st to 2nd	15 (24)
2nd to 3rd	25 (40)
3rd to 4th	40 (64)
4th to 5th	45 (72)
5th	—

For quick acceleration in low altitude areas and high altitude areas (over 4,000 ft [1219 m]):

Gear change	MPH (km/h)
1st to 2nd	15 (24)
2nd to 3rd	25 (40)
3rd to 4th	40 (64)
4th to 5th	45 (72)
5th	—

Suggested maximum speed in each gear

Downshift to a lower gear if the engine is not running smoothly, or if you need to accelerate.

Do not exceed the maximum suggested speed (shown below) in any gear. For level road driving, use the highest gear suggested for that speed. Always observe posted speed limits, and drive according to the road conditions, which will ensure safe operation. Do not over-rev the engine when shifting to a lower gear as it may cause engine damage or loss of vehicle control.

GEAR	MPH (km/h)
1st	28 (46)
2nd	52 (83)
3rd	76 (122)
4th	103 (166)
5th	—

⚠ WARNING

- **Be sure the parking brake is fully released before driving. Failure to do so can cause brake failure and lead to an accident.**
- **Do not release the parking brake from outside the vehicle.**
- **Do not use the shift selector in place of the parking brake. When parking, be sure the parking brake is fully engaged.**
- **Do not leave children unattended in a vehicle. They could release the parking brake and cause an accident.**

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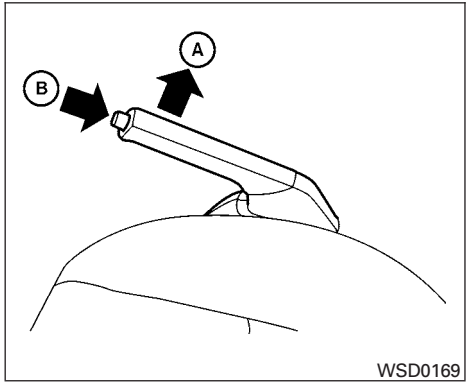


To engage: Pull the parking brake lever up Ⓐ.

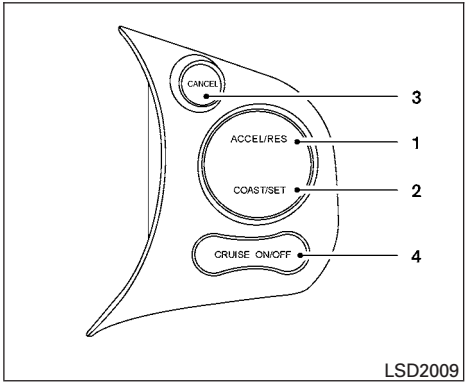
To release:

1. Firmly apply the foot brake.
2. **Manual transmission models:**

   Place the shift selector in the N (Neutral) position.

   Continuously Variable Transmission (CVT) / Automatic transmission models:

   Move the shift selector to the P (Park) position.
3. While pulling up on the parking brake lever slightly, push the button Ⓑ and lower the lever completely .
4. Before driving, be sure the brake warning light goes out.



1. ACCEL/RES switch
2. COAST/SET switch
3. CANCEL switch
4. CRUISE ON/OFF switch

PRECAUTIONS ON CRUISE CONTROL

- If the cruise control system malfunctions, it cancels automatically.
- To properly set the cruise control system, use the following procedures.

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⚠ WARNING

Do not use the cruise control when driving under the following conditions:

- **When it is not possible to keep the vehicle at a set speed.**
- **In heavy traffic or in traffic that varies in speed.**
- **On winding or hilly roads.**
- **On slippery roads (rain, snow, ice, etc.).**
- **In very windy areas.**

Doing so could cause a loss of vehicle control and result in an accident.

⚠ CAUTION

On manual transmission models, do not shift into N (Neutral) without depressing the clutch pedal when the cruise control is set. Should this occur, depress the clutch pedal and turn the main switch off immediately. Failure to do so may cause engine damage.

CRUISE CONTROL OPERATIONS

The cruise control allows driving at a speed between 25 - 89 MPH (40 - 144 km/h) without keeping your foot on the accelerator pedal.

To turn on the cruise control, push the CRUISE ON/OFF switch. The CRUISE indicator light in the instrument panel comes on.

To set cruising speed, accelerate the vehicle to the desired speed, push the COAST/SET switch and release it. The CRUISE indicator light in the instrument panel comes on. Take your foot off the accelerator pedal. Your vehicle maintains the set speed.

- **To pass another vehicle,** depress the accelerator pedal. When you release the pedal, the vehicle returns to the previously set speed.
- The vehicle may not maintain the set speed when going up or down steep hills. If this happens, drive without the cruise control.

To cancel the preset speed, use one of the following three methods.

- Push the CANCEL button; the CRUISE indicator light in the instrument panel goes out.
- Tap the brake pedal; the CRUISE indicator light goes out.
- Push the CRUISE ON/OFF switch off. The CRUISE indicator light in the instrument panel go out.

The cruise control is automatically canceled and the CRUISE light in the instrument panel goes out if:

- you depress the brake or clutch pedal while pushing the ACCEL/RES or SET/COAST switch. The preset speed is deleted from memory.
- the vehicle slows down more than 8 MPH (13 km/h) below the set speed.
- you depress the clutch pedal (manual transmission), or move the shift selector into N (Neutral) (CVT)/ (automatic transmission).

To reset at a faster cruising speed, use one of the following three methods.

- Depress the accelerator pedal. When the vehicle attains the desired speed, push and release the COAST/SET switch.
- Push and hold the ACCEL/RES switch. When the vehicle attains the speed you desire, release the switch.
- Push and release the ACCEL/RES switch. Each time you do this, the set speed increases by about 1 MPH (1.6 km/h).

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To reset at a slower cruising speed, use one of the following three methods.

- Lightly tap the brake pedal. When the vehicle attains the desired speed, push the COAST/SET switch and release it.
- Push and hold the COAST/SET switch. Release the switch when the vehicle slows to the desired speed.
- Push and release the COAST/SET switch. Each time you do this, the set speed decreases by about 1 MPH (1.6 km/h).

To resume the preset speed, push and release the ACCEL/RES switch. The vehicle returns to the last set cruising speed when the vehicle speed is over 25 MPH (40 km/h).

⚠CAUTION

During the first 1,200 miles (2,000 km), follow these recommendations to obtain maximum engine performance and ensure the future reliability and economy of your new vehicle. Failure to follow these recommendations may result in shortened engine life and reduced engine performance.

- Avoid driving for long periods at constant speed, either fast or slow, and do not run the engine over 4,000 rpm.
- Do not accelerate at full throttle in any gear.
- Avoid quick starts.
- Avoid hard braking as much as possible.

Follow these easy-to-use Fuel Efficient Driving Tips to help you achieve the most fuel economy from your vehicle.

1. **Use Smooth Accelerator and Brake Pedal Application**
   - Avoid rapid starts and stops
   - Use smooth, gentle accelerator and brake application whenever possible
   - Maintain constant speed while commuting and coast whenever possible
2. **Maintain Constant Speed**
   - Look ahead to try and anticipate and minimize stops
   - Synchronizing your speed with traffic lights allows you to reduce your number of stops
   - Maintaining a steady speed can minimize red light stops and improve fuel efficiency
3. **Use Air Conditioning (A/C) at Higher Vehicle Speeds**
   - Below 40 MPH (64 km/h), it is more efficient to open windows to cool the vehicle due to reduced engine load

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- Above 40 MPH (64 km/h), it is more efficient to use A/C to cool the vehicle due to increased aerodynamic drag
- Recirculating the cool air in the cabin when the A/C is on reduces cooling load

4. **Drive at Economical Speeds and Distances**
   - Observing the speed limit and not exceeding 60 MPH (97 km/h) (where legally allowed) can improve fuel efficiency due to reduced aerodynamic drag
   - Maintaining a safe following distance behind other vehicles reduces unnecessary braking
   - Safely monitoring traffic to anticipate changes in speed permits reduced braking and smooth acceleration changes
   - Select a gear range suitable to road conditions.
5. **Use Cruise Control**
   - Using cruise control during highway driving helps maintain a steady speed
   - Cruise control is particularly effective in providing fuel savings when driving on flat terrains
6. **Plan for the Shortest Route**
   - Utilize a map or navigation system to determine the best route to save time
7. **Avoid Idling**
   - Shutting off your engine when safe for stops exceeding 30–60 seconds saves fuel and reduces emissions
8. **Buy an Automated Pass for Toll Roads**
   - Automated passes permit drivers to use special lanes to maintain cruising speed through the toll and avoid stopping and starting
9. **Winter Warm Up**
   - Limit idling time to minimize impact to fuel economy
   - Vehicles typically need no more than 30 seconds of idling at start-up to effectively circulate the engine oil before driving
   - Your vehicle will reach its ideal operating temperature more quickly while driving versus idling
10. **Keeping your Vehicle Cool**
    - Park your vehicle in a covered parking area or in the shade whenever possible
    - When entering a hot vehicle, opening the windows will help to reduce the inside temperature faster, resulting in reduced demand on your A/C system

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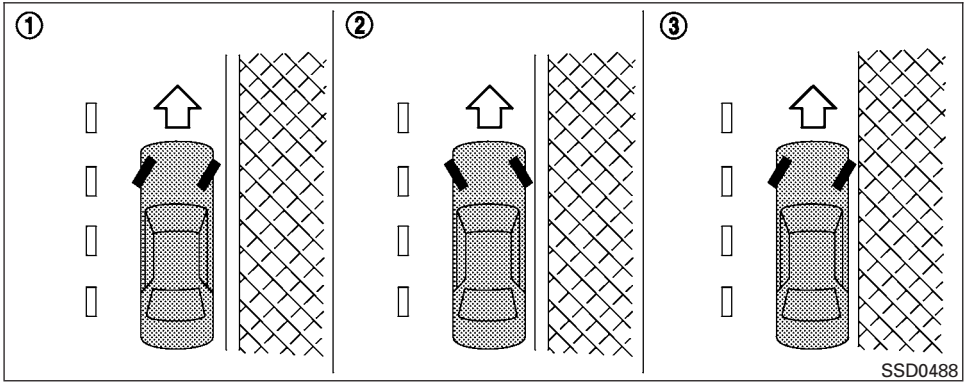
INCREASING FUEL ECONOMY

- Keep your engine tuned up.
- Follow the recommended scheduled maintenance.
- Keep the tires inflated to the correct pressure. Low tire pressure increases tire wear and lowers fuel economy.
- Keep the wheels in correct alignment. Improper alignment increases tire wear and lowers fuel economy.
- Use the recommended viscosity engine oil. See “Engine oil and oil filter recommendations” in “Technical and consumer information” later in this manual.

PARKING/PARKING ON HILLS



⚠WARNING

- **Do not stop or park the vehicle over flammable materials such as dry grass, waste paper or rags. They may ignite and cause a fire.**
- **Safe parking procedures require that both the parking brake be set and the transmission placed into P (Park) or in an appropriate gear for manual transmission models. Failure to do so could cause the vehicle to move unexpectedly or roll away and result in an accident. Make sure the shift selector has been pushed as far forward as it can go and cannot be moved without depressing the foot brake pedal.**
- **Never leave the engine running while the vehicle is unattended.**
- **Do not leave children unattended inside the vehicle. They could unknowingly activate switches or controls. Unattended children could become involved in serious accidents.**

Information Provided by:
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1. Firmly apply the parking brake.
2. **Manual transmission models:**

   Place the shift selector in the R (Reverse) position. When parking on an uphill grade, place the shift selector in 1st gear.

   Continuously Variable Transmission (CVT) / Automatic transmission models:

   Move the shift selector to the P (Park) position.
3. To help prevent the vehicle from rolling into traffic when parked on an incline, it is a good practice to turn the wheels as illustrated.

- HEADED DOWNHILL WITH CURB: ①

  Turn the wheels into the curb and move the vehicle forward until the curb side wheel gently touches the curb.

- HEADED UPHILL WITH CURB: ②

  Turn the wheels away from the curb and move the vehicle back until the curb side wheel gently touches the curb.

- HEADED UPHILL OR DOWNHILL, NO CURB: ③

  Turn the wheels toward the side of the road so the vehicle will move away from the center of the road if it moves.

4. Place the ignition switch in the LOCK position and remove the key (if so equipped)/ NISSAN Intelligent Key® (if so equipped).

⚠WARNING

- **If the engine is not running or is turned off while driving, the power assist for the steering will not work. Steering will be harder to operate.**
- **When the power steering warning light illuminates with the engine running, there will be no power assist for the steering. You will still have control of the vehicle but the steering will be harder to operate. Have the power steering system checked by a NISSAN dealer.**

The power steering system is designed to provide power assist while driving to operate the steering wheel with light force.

When the steering wheel is operated repeatedly or continuously while parking or driving at a very low speed, the power assist for the steering wheel will be reduced. This is to prevent overheating of the power steering system and protect it from getting damaged. While the power assist is reduced, steering wheel operation will become heavy. When the temperature of the power steering system goes down, the power assist level will return to normal. Avoid repeating such steering wheel operations that could cause the power steering system to overheat.

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You may hear a sound when the steering wheel is operated quickly. However, this is not a malfunction.

If the electric power steering warning light **PS** illuminates while the engine is running, it may indicate the power steering system is not functioning properly and may need servicing. Have the power steering system checked by a NISSAN dealer.

When the electric power steering warning light illuminates with the engine running, there will be no power assist for the steering but you will still have control of the vehicle. At this time, greater steering effort is required to operate the steering wheel, especially in sharp turns and at low speeds.

For additional information see “Power steering warning light” in the “Instruments and controls” section.

The brake system has two separate hydraulic circuits. If one circuit malfunctions, you will still have braking at 2 wheels.

BRAKE PRECAUTIONS

Vacuum assisted brakes

The brake booster aids braking by using engine vacuum. If the engine stops, you can stop the vehicle by depressing the brake pedal. However, greater foot pressure on the brake pedal will be required to stop the vehicle and stopping distance will be longer.

Using the brakes

Avoid resting your foot on the brake pedal while driving. This will overheat the brakes, wear out the brake pads faster, and reduce gas mileage.

To help reduce brake wear and to prevent the brakes from overheating, reduce speed and downshift to a lower gear before going down a slope or long grade. Overheated brakes may reduce braking performance and could result in loss of vehicle control.

⚠ WARNING

- **While driving on a slippery surface, be careful when braking, accelerating or downshifting. Abrupt braking or accelerating could cause the wheels to skid and result in an accident.**
- **If the engine is not running or is turned off while driving, the power assist for the brakes will not work. Braking will be harder.**

Wet brakes

When the vehicle is washed or driven through water, the brakes may get wet. As a result, your braking distance will be longer and the vehicle may pull to one side during braking.

To dry the brakes, drive the vehicle at a safe speed while lightly pressing the brake pedal to heat up the brakes. Do this until the brakes return to normal. Avoid driving the vehicle at high speeds until the brakes function correctly.

Parking brake break-in

Break-in the brake shoes whenever the effect of the parking brake is weakened or whenever the brake shoes and/or drums are replaced, in order to assure the best brake performance.

Information Provided by: DEALER E-PROCESS

This procedure is described in the vehicle service manual and can be performed by a NISSAN dealer.

ANTI-LOCK BRAKING SYSTEM (ABS)

⚠ WARNING

- **The Anti-lock Braking System (ABS) is a sophisticated device, but it cannot prevent accidents resulting from careless or dangerous driving techniques. It can help maintain vehicle control during braking on slippery surfaces. Remember that stopping distances on slippery surfaces will be longer than on normal surfaces even with ABS. Stopping distances may also be longer on rough, gravel or snow covered roads, or if you are using tire chains. Always maintain a safe distance from the vehicle in front of you. Ultimately, the driver is responsible for safety.**
- **Tire type and condition may also affect braking effectiveness.**
  - **When replacing tires, install the specified size of tires on all four wheels.**
  - **When installing a spare tire, make sure that it is the proper size and type as specified on the Tire and Loading Information label. See "Tire and Loading Information label" in the "Technical and consumer information" section of this manual.**
  - **For detailed information, see "Wheels and tires" in the "Maintenance and do-it-yourself" section of this manual.**

The Anti-lock Braking System (ABS) controls the brakes so the wheels do not lock during hard braking or when braking on slippery surfaces. The system detects the rotation speed at each wheel and varies the brake fluid pressure to prevent each wheel from locking and sliding. By preventing each wheel from locking, the system helps the driver maintain steering control and helps to minimize swerving and spinning on slippery surfaces.

Using the system

Depress the brake pedal and hold it down. Depress the brake pedal with firm steady pressure, but do not pump the brakes. The ABS will operate to prevent the wheels from locking up. Steer the vehicle to avoid obstacles.

⚠ WARNING

Do not pump the brake pedal. Doing so may result in increased stopping distances.

Self-test feature

The ABS includes electronic sensors, electric pumps, hydraulic solenoids and a computer. The computer has a built-in diagnostic feature that tests the system each time you start the engine and move the vehicle at a low speed in forward or reverse. When the self-test occurs, you may hear a "clunk" noise and/or feel a pulsation in the brake pedal. This is normal and does not indicate a malfunction. If the computer senses a malfunction, it switches the ABS off and illuminates the ABS warning light on the instrument panel. The brake system then operates normally, but without anti-lock assistance.

If the ABS warning light illuminates during the self-test or while driving, have the vehicle checked by a NISSAN dealer.

Normal operation

The ABS operates at speeds above 3 - 6 MPH (5 - 10 km/h). The speed varies according to road conditions.

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VEHICLE DYNAMIC CONTROL (VDC) SYSTEM

When the ABS senses that 1 or more wheels are close to locking up, the actuator rapidly applies and releases hydraulic pressure. This action is similar to pumping the brakes very quickly. You may feel a pulsation in the brake pedal and hear a noise from under the hood or feel a vibration from the actuator when it is operating. This is normal and indicates that the ABS is operating properly. However, the pulsation may indicate that road conditions are hazardous and extra care is required while driving.

The Vehicle Dynamic Control (VDC) system uses various sensors to monitor driver inputs and vehicle motion. Under certain driving conditions, the VDC System helps to perform the following functions:

- Controls brake pressure to reduce wheel slip on one slipping drive wheel so power is transferred to a non slipping drive wheel on the same axle.
- Controls brake pressure and engine output to reduce drive wheel slip based on vehicle speed (traction control function).
- Controls brake pressure at individual wheels and engine output to help the driver maintain control of the vehicle in the following conditions:
  - understeer (vehicle tends to not follow the steered path despite increased steering input)
  - oversteer (vehicle tends to spin due to certain road or driving conditions)

The VDC system can help the driver to maintain control of the vehicle, but it cannot prevent loss of vehicle control in all driving situations.

When the VDC system operates, the indicator in the instrument panel flashes so note the following:

- The road may be slippery or the system may determine some action is required to help keep the vehicle on the steered path.
- You may feel a pulsation in the brake pedal and hear a noise or vibration from under the hood. This is normal and indicates that the VDC system is working properly.
- Adjust your speed and driving to the road conditions.

See “Slip indicator light” and ”Vehicle Dynamic Control (VDC) off indicator light” in the ”Instruments and controls” section.

If a malfunction occurs in the system, the indicator light comes on in the instrument panel. The VDC system automatically turns off when the indicator light is off.

The VDC OFF switch is used to turn off the VDC system. The OFF indicator illuminates to indicate the VDC system is off.

When the VDC switch is used to turn off the system, the VDC system still operates to prevent one drive wheel from slipping by transferring power to a non slipping drive wheel. The indicator flashes if this occurs. All other VDC functions are off and the indicator will not flash.

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The VDC system is automatically reset to on when the ignition switch is placed in the off position then back to the on position.

The computer has a built in diagnostic feature that tests the system each time you start the engine and move the vehicle forward or in reverse at a slow speed. When the self-test occurs, you may hear a clunk noise and/or feel a pulsation in the brake pedal. This is normal and is not an indication of a malfunction.

⚠WARNING

- **The VDC system is designed to help the driver maintain stability but does not prevent accidents due to abrupt steering operation at high speeds or by careless or dangerous driving techniques. Reduce vehicle speed and be especially careful when driving and cornering on slippery surfaces and always drive carefully.**
- **Do not modify the vehicle's suspension. If suspension parts such as shock absorbers, struts, springs, stabilizer bars, bushings and wheels are not NISSAN recommended for your vehicle or are extremely deteriorated, the VDC system may not operate properly. This could adversely affect vehicle handling performance, and the indicator may flash or the indicator light may illuminate.**
- **If brake related parts such as brake pads, rotors and calipers are not NISSAN recommended or are extremely deteriorated, the VDC system may not operate properly and the indicator light may illuminate.**
- **If engine control related parts are not NISSAN recommended or are extremely deteriorated, the indicator light may illuminate.**
- **When driving on extremely inclined surfaces such as higher banked corners, the VDC system may not operate properly and the indicator may flash or the indicator light may illuminate. Do not drive on these types of roads.**
- **When driving on an unstable surface such as a turntable, ferry, elevator or ramp, the indicator may flash or the indicator light may illuminate. This is not a malfunction. Restart the engine after driving onto a stable surface.**
- **If wheels or tires other than the NISSAN recommended ones are used, the VDC system may not operate properly and the indicator may flash or the indicator light may illuminate.**
- **The VDC system is not a substitute for winter tires or tire chains on a snow covered road.**

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FREEING A FROZEN DOOR LOCK

To prevent a door lock from freezing, apply deicer through the key hole. If the lock becomes frozen, heat the key before inserting it into the key hole, or use the remote keyless entry keyfob (if so equipped) or the NISSAN Intelligent Key® (if so equipped).

ANTI-FREEZE

In the winter when it is anticipated that the temperature will drop below 32°F (0°C), check the anti-freeze to assure proper winter protection. For details, see “Engine cooling system” in the “Maintenance and do-it-yourself” section of this manual.

BATTERY

If the battery is not fully charged during extremely cold weather conditions, the battery fluid may freeze and damage the battery. To maintain maximum efficiency, the battery should be checked regularly. For details, see “Battery” in the “Maintenance and do-it-yourself” section of this manual.

DRAINING OF COOLANT WATER

If the vehicle is to be left outside without anti-freeze, drain the cooling system, including the engine block. Refill before operating the vehicle. For details, see “Changing engine coolant” in the “Maintenance and do-it-yourself” section of this manual.

TIRE EQUIPMENT

1. SUMMER tires have a tread designed to provide superior performance on dry pavement. However, the performance of these tires will be substantially reduced in snowy and icy conditions. If you operate your vehicle on snowy or icy roads, NISSAN recommends the use of MUD & SNOW or ALL SEASON TIRES on all four wheels. Please consult a NISSAN dealer for the tire type, size, speed rating and availability information.
2. For additional traction on icy roads, studded tires may be used. However, some U.S. states and Canadian provinces prohibit their use. Check local, state and provincial laws before installing studded tires.

Skid and traction capabilities of studded snow tires on wet or dry surfaces may be poorer than that of non-studded snow tires.

3. Tire chains may be used. For details see “Tire chains” in the “Maintenance and do-it-yourself” section of this manual.

SPECIAL WINTER EQUIPMENT

It is recommended that the following items be carried in the vehicle during winter:

- A scraper and stiff-bristled brush to remove ice and snow from the windows and wiper blades.
- A sturdy, flat board to be placed under the jack to give it firm support.
- A shovel to dig the vehicle out of snowdrifts.
- Extra washer fluid to refill the windshield-washer fluid reservoir.

DRIVING ON SNOW OR ICE

⚠ WARNING

- **Wet ice (32°F, 0°C and freezing rain), very cold snow or ice can be slick and very hard to drive on. The vehicle will have much less traction or “grip” under these conditions. Try to avoid driving on wet ice until the road is salted or sanded.**

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- **Whatever the condition, drive with caution. Accelerate and slow down with care. If accelerating or downshifting too fast, the drive wheels will lose even more traction.**
- **Allow more stopping distance under these conditions. Braking should be started sooner than on dry pavement.**
- **Allow greater following distances on slippery roads.**
- **Watch for slippery spots (glare ice). These may appear on an otherwise clear road in shaded areas. If a patch of ice is seen ahead, brake before reaching it. Try not to brake while on the ice, and avoid any sudden steering maneuvers.**
- **Do not use the cruise control (if so equipped) on slippery roads.**
- **Snow can trap dangerous exhaust gases under your vehicle. Keep snow clear of the exhaust pipe and from around your vehicle.**

ENGINE BLOCK HEATER (if so equipped)

Engine block heaters are used to assist with cold temperature starting.

The engine block heater should be used when the outside temperature is 20°F (-7°C) or lower.

⚠WARNING

- **Do not use your engine block heater with an ungrounded electrical system or a 2-pronged adapter. You can be seriously injured by an electrical shock if you use an ungrounded connection.**
- **Disconnect and properly store the engine block heater cord before starting the engine. Damage to the cord could result in an electrical shock and can cause serious injury.**
- **Use a heavy-duty 3-wire, 3-pronged extension cord rated for at least 10 A. Plug the extension cord into a Ground Fault Interrupt (GFI) protected, grounded 110-VAC outlet. Failure to use the proper extension cord or a grounded outlet can result in a fire or electrical shock and cause serious personal injury.**

To use the engine block heater:

1. Turn the engine off.
2. Open the hood and unwrap the engine block heater cord.
3. Plug the engine block heater cord into a grounded 3 wire, 3 pronged extension cord.
4. Plug the extension cord into a Ground Fault Interrupt (GFI) protected, grounded 110-volt AC (VAC) outlet.
5. The engine block heater must be plugged in for at least 2 - 4 hours, depending on outside temperatures, to properly warm the engine coolant. Use an appropriate timer to turn the engine block heater on.
6. Before starting the engine, unplug and properly store the cord to keep it away from moving parts.

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6 In case of emergency

Emergency engine shut off
(Push-button ignition models only) 6-2
Hazard warning flasher switch 6-2
Flat tire 6-3
Tire Pressure Monitoring System (TPMS)
(if so equipped) 6-3
Changing a flat tire 6-3
Jump starting 6-8
Push starting 6-10
If your vehicle overheats 6-10
Towing your vehicle 6-11
Towing recommended by NISSAN 6-12
Vehicle recovery (freeing a stuck vehicle) 6-13

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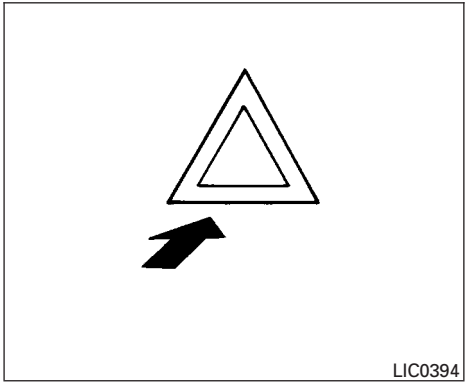
EMERGENCY ENGINE SHUT OFF (Push-button ignition models only)

To shut off the engine in an emergency situation while driving, perform the following procedure:

– Rapidly push the push-button ignition switch 3 consecutive times in less than 1.5 seconds, or

– Push and hold the push-button ignition switch for more than 2 seconds.

HAZARD WARNING FLASHER SWITCH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Push the switch on to warn other drivers when you must stop or park under emergency conditions. All turn signal lights flash.

⚠ WARNING

- **If stopping for an emergency, be sure to move the vehicle well off the road.**
- **Do not use the hazard warning flashers while moving on the highway unless unusual circumstances force you to drive so slowly that your vehicle might become a hazard to other traffic.**
- **Turn signals do not work when the hazard warning flasher lights are on.**

The flashers will operate with the ignition switch placed in any position.

Some state laws may prohibit the use of the hazard warning flasher switch while driving.

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TIRE PRESSURE MONITORING SYSTEM (TPMS) (if so equipped)

This vehicle is equipped with the Tire Pressure Monitoring System (TPMS). It monitors tire pressure of all tires except the spare. When the low tire pressure warning light is lit, and the CHECK TIRE PRES (pressure) warning message is displayed in the odometer, one or more of your tires is significantly under-inflated. If the vehicle is being driven with low tire pressure, the TPMS will activate and warn you of it by the low tire pressure warning light. This system will activate only when the vehicle is driven at speeds above 16 MPH (25 km/h). For more details, refer to "Warning/indicator lights and audible reminders" in the "Instruments and controls" section, and "Tire Pressure Monitoring System (TPMS)" in the "Starting and driving" section.

⚠WARNING

- **If the low tire pressure warning light illuminates while driving, avoid sudden steering maneuvers or abrupt braking, reduce vehicle speed, pull off the road to a safe location and stop the vehicle as soon as possible. Driving with under-inflated tires may permanently damage the tires and increase the likelihood of tire failure. Serious vehicle damage could occur and may lead to an accident and could result in serious personal injury. Check the tire pressure for all four tires. Adjust the tire pressure to the recommended COLD tire pressure shown on the Tire and Loading Information label to turn the low tire pressure warning light OFF. If you have a flat tire, replace it with a spare tire as soon as possible.**
- **When a spare tire is mounted or a wheel is replaced, the TPMS will not function and the low tire pressure warning light will flash for approximately 1 minute. The light will remain on after 1 minute. Contact your NISSAN dealer as soon as possible for tire replacement and/or system resetting.**
- **Do not inject any tire liquid or aerosol tire sealant into the tires, as this may cause a malfunction of the tire pressure sensors.**
- **Replacing tires with those not originally specified by NISSAN could affect the proper operation of the TPMS.**

CHANGING A FLAT TIRE

If you have a flat tire, follow the instructions below:

Stopping the vehicle

1. Safely move the vehicle off the road and away from traffic.
2. Turn on the hazard warning flashers.
3. Park on a level surface and apply the parking brake. Shift the automatic transmission (A/T) or the continuously variable transmission (CVT) models into P (Park) or the manual transmission (M/T) model into R (Reverse).
4. Turn off the engine.
5. Raise the hood to warn other traffic and to signal professional road assistance personnel that you need assistance.

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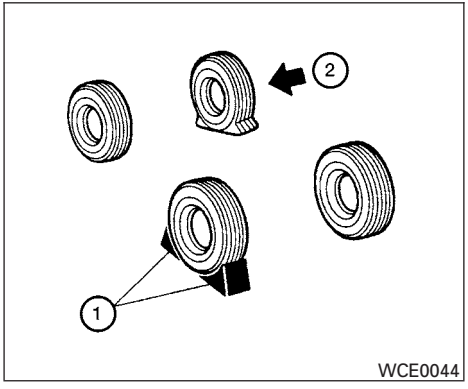
6. Have all passengers get out of the vehicle and stand in a safe place, away from traffic and clear of the vehicle.

⚠WARNING

- **Make sure the parking brake is securely applied and the automatic transmission (A/T) or the continuously variable transmission (CVT) models is shifted into P (Park), or the manual transmission (M/T) model into R (Reverse).**
- **Never change tires when the vehicle is on a slope, ice or slippery areas. This is hazardous.**
- **Never change tires if oncoming traffic is close to your vehicle. Wait for professional road assistance.**

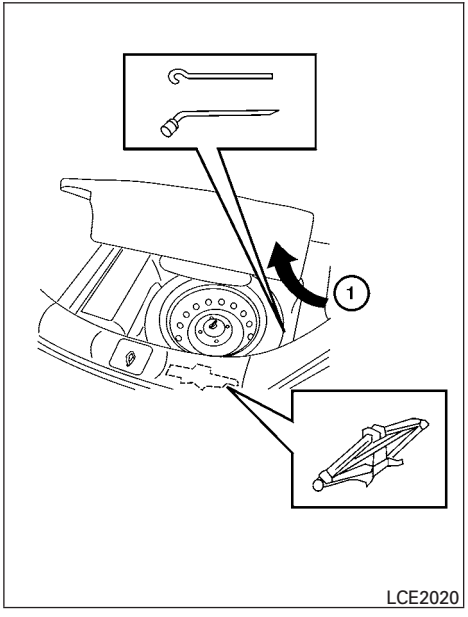


Blocking wheels

Place suitable blocks ① at both the front and back of the wheel diagonally opposite the flat tire ② to prevent the vehicle from moving when it is jacked up.

⚠WARNING

Be sure to block the wheel as the vehicle may move and result in personal injury.



Getting the spare tire and tools

Open the trunk. Lift the floorboard and spare tire cover ①.

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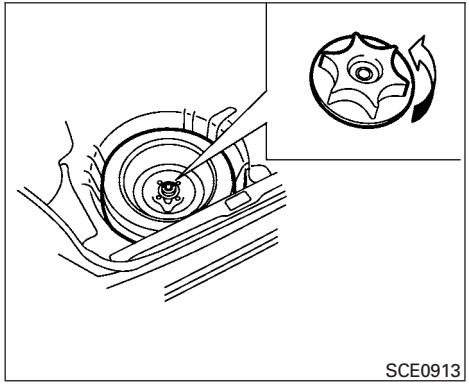
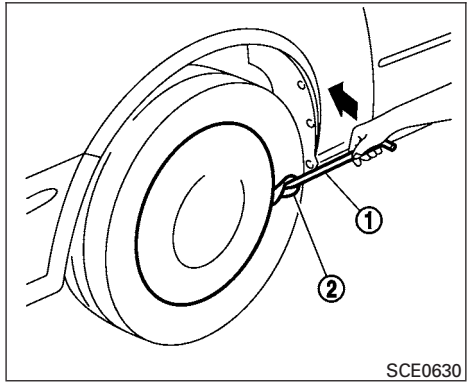


To remove the jack, collapse the jack from the storage location. If necessary, remove the spare tire first to easily access the jack.



Removing wheel cover (if so equipped)

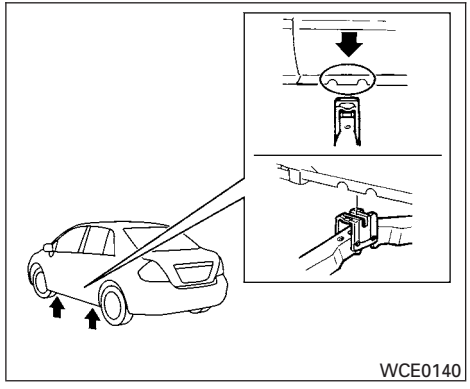
⚠CAUTION

Do not use your hands to pry off wheel caps or wheel covers. Doing so could result in personal injury.

To remove the wheel cover, use the jack rod ① as illustrated.

Apply cloth ② between the wheel and jack rod to prevent damaging the wheel and wheel cover.

Use caution not to scratch the wheel cover or wheel surface.



Jacking up vehicle and removing the damaged tire

⚠WARNING

- **Never get under the vehicle while it is supported only by the jack. If it is necessary to work under the vehicle, support it with safety stands.**
- **Use only the jack provided with your vehicle to lift the vehicle. Do not use the jack provided with your vehicle on other vehicles. The jack is designed for lifting only your vehicle during a tire change.**

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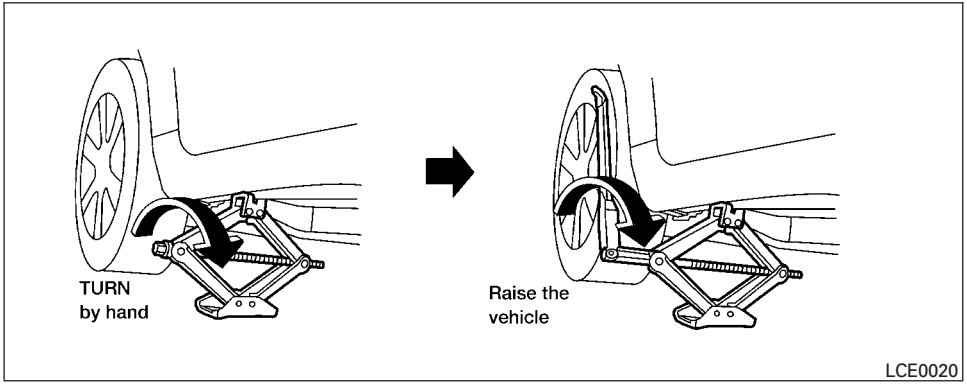
- **Use the correct jack-up points. Never use any other part of the vehicle for jack support.**
- **Never jack up the vehicle more than necessary.**
- **Never use blocks on or under the jack.**
- **Do not start or run the engine while vehicle is on the jack. It may cause the vehicle to move. This is especially true for vehicles with limited slip differentials.**
- **Do not allow passengers to stay in the vehicle while it is on the jack.**
- **Never run the engine with a wheel(s) off the ground. It may cause the vehicle to move.**

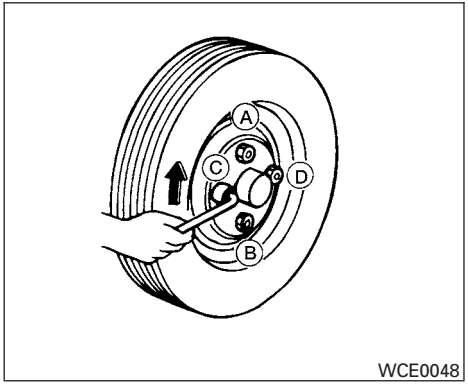


Always refer to the proper illustrations for the correct placement and jack-up points for your specific vehicle model and jack type.

Carefully read the caution label attached to the jack body and the following instructions.

1. Loosen each wheel nut one or two turns by turning counterclockwise with the wheel nut wrench. **Do not remove the wheel nuts until the tire is off the ground.**
2. Place the jack directly under the jack-up point as illustrated so the top of the jack contacts the vehicle at the jack-up point. Align the jack head between the two notches in the front or the rear as shown. Also fit the groove of the jack head between the notches as shown.

   The jack should be used on firm and level ground.
3. To lift the vehicle, securely hold the jack lever and rod with both hands. Carefully raise the vehicle until the tire clears the ground. Remove the wheel nuts, and then remove the tire.



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Installing the spare tire

The spare tire is designed for emergency use. See specific instructions under the heading “Wheels and tires” in the “Maintenance and do-it-yourself” section of this manual.

1. Clean any mud or dirt from the surface between the wheel and hub.
2. Carefully put the spare tire on and tighten the wheel nuts finger tight.
3. With the wheel nut wrench, tighten wheel nuts alternately and evenly as illustrated until they are tight.
4. Lower the vehicle slowly until the tire touches the ground. Then, with the wheel nut wrench, tighten the wheel nuts securely in the sequence illustrated (Ⓐ, Ⓑ, Ⓒ, Ⓓ). Lower the vehicle completely.

⚠ WARNING

- **Incorrect wheel nuts or improperly tightened wheel nuts can cause the wheel to become loose or come off. This could cause an accident.**
- **Do not use oil or grease on the wheel studs or nuts. This could cause the nuts to become loose.**
- **Retighten the wheel nuts when the vehicle has been driven for 600 miles (1,000 km) (also in cases of a flat tire, etc.).**

As soon as possible, tighten the wheel nuts to the specified torque with a torque wrench.

Wheel nut tightening torque:
83 ft-lb (113 N·m)

The wheel nuts must be kept tightened to specification at all times. It is recommended that wheel nuts be tightened to specification at each lubrication interval.

Adjust tire pressure to the COLD pressure.

COLD pressure: After vehicle has been parked for three hours or more or driven less than 1 mile (1.6 km).

COLD tire pressures are shown on the Tire and Loading Information label affixed to the driver side center pillar.

5. Securely store the flat tire in the vehicle.
6. Install the jack in its storage area between floor and bracket for jack mounting.
7. Install tools between the side of the spare tire (3 o’clock position) and the spare tire pan without looseness.
8. Place the spare tire cover and the floor covering over the damaged tire.
9. Close the trunk.

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⚠ WARNING

- **Always make sure that the spare tire and jacking equipment are properly secured after use. Such items can become dangerous projectiles in an accident or sudden stop.**
- **The spare tire is designed for emergency use. See specific instructions under the heading “Wheels and tires” in the “Maintenance and do-it-yourself” section of this manual.**

To start your engine with a booster battery, the instructions and precautions below must be followed.

⚠ WARNING

- **If done incorrectly, jump starting can lead to a battery explosion, resulting in severe injury or death. It could also damage your vehicle.**
- **Explosive hydrogen gas is always present in the vicinity of the battery. Keep all sparks and flames away from the battery.**
- **Do not allow battery fluid to come into contact with eyes, skin, clothing or painted surfaces. Battery fluid is a corrosive sulfuric acid solution which can cause severe burns. If the fluid should come into contact with anything, immediately flush the contacted area with water.**
- **Keep battery out of the reach of children.**
- **The booster battery must be rated at 12 volts. Use of an improperly rated battery can damage your vehicle.**
- **Whenever working on or near a battery, always wear suitable eye protectors (for example, goggles or industrial safety spectacles) and remove rings, metal bands, or any other jewelry. Do not lean over the battery when jump starting.**
- **Do not attempt to jump start a frozen battery. It could explode and cause serious injury.**
- **Your vehicle has an automatic engine cooling fan. It could come on at any time. Keep hands and other objects away from it.**

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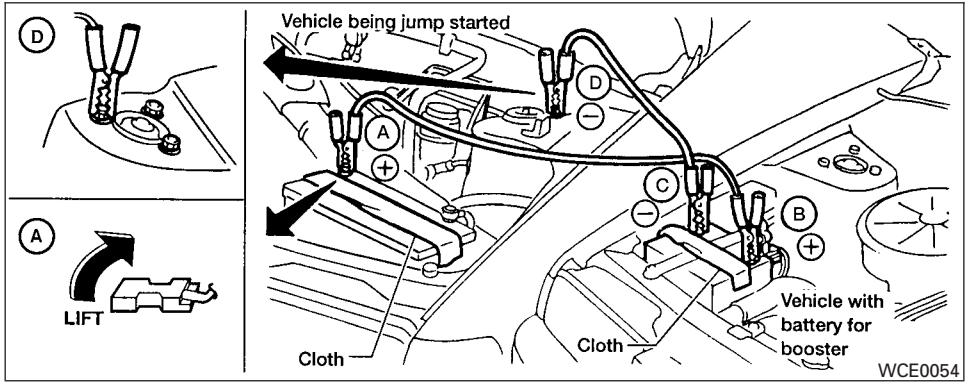

⚠WARNING

Always follow the instructions below. Failure to do so could result in damage to the charging system and cause personal injury.

1. If the booster battery is in another vehicle, position the two vehicles to bring their batteries near each other.

   Do not allow the two vehicles to touch.

2. Apply the parking brake. Move the shift selector to N (Neutral) (manual transmission) or to P (Park) (Continuously Variable Transmission)/(automatic transmission). Switch off all unnecessary electrical systems (lights, heater, air conditioner, etc.).
3. Remove vent caps on the battery (if so equipped). Cover the battery with an old cloth to reduce explosion hazard.
4. Connect jumper cables in the sequence illustrated (Ⓐ, Ⓑ, Ⓒ, Ⓓ).

⚠CAUTION

- **Always connect positive (+) to positive (+) and negative (−) to body ground (for example, strut mounting bolt, engine lift bracket, etc.) — not to the battery.**
- **Make sure the jumper cables do not touch moving parts in the engine compartment and that the cable clamps do not contact any other metal.**

5. Start the engine of the booster vehicle and let it run for a few minutes.
6. Keep the engine speed of the booster vehicle at about 2,000 rpm, and start the engine of the vehicle being jump started.

⚠CAUTION

Do not keep the starter motor engaged for more than 10 seconds. If the engine does not start right away, turn the key off and wait 3 to 4 seconds before trying again.

7. After starting the engine, carefully disconnect the negative cable and then the positive cable.
8. Replace the vent caps (if so equipped). Be sure to dispose of the cloth used to cover the vent holes as it may be contaminated with corrosive acid.

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⚠ CAUTION

- **Do not push start this vehicle. The three-way catalyst may be damaged.**
- **Continuously Variable Transmission (CVT) models cannot be push-started or tow-started. Attempting to do so may cause transmission damage.**
- **For manual transmission models, never try to start the vehicle by towing it. When the engine starts, the forward surge could cause the vehicle to collide with the tow vehicle.**
- **Automatic transmission models cannot be push-started or tow-started. Attempting to do so may cause transmission damage.**

If your vehicle is overheating (indicated by a red high temperature warning light), or if you feel a lack of engine power, detect abnormal noise, etc. take the following steps.

⚠ WARNING

- **Do not continue to drive if your vehicle overheats. Doing so could cause engine damage or a vehicle fire.**
- **To avoid the danger of being scalded, never remove the radiator cap while the engine is still hot. When the radiator cap is removed, pressurized hot water will spurt out, possibly causing serious injury.**
- **Do not open the hood if steam is coming out.**

1. Move the vehicle safely off the road, apply the parking brake and move the shift selector to N (Neutral) (manual transmission) or to P (Park) (continuously variable transmission)/ (automatic transmission).

   Do not stop the engine.

2. Turn off the air conditioner (if so equipped). Open all the windows, move the heater or air conditioner temperature control to maximum hot and fan control to high speed.
3. Get out of the vehicle. Look and listen for steam or coolant escaping from the radiator before opening the hood. (If steam or coolant is escaping, turn off the engine.) Do not open the hood further until no steam or coolant can be seen.
4. Open the engine hood.

⚠ WARNING

If steam or water is coming from the engine, stand clear to prevent getting burned.

5. Visually check drive belts for damage or looseness. Also check if the cooling fan is running. The radiator hoses and radiator should not leak water. If coolant is leaking, the water pump belt is missing or loose, or the cooling fan does not run, stop the engine.

⚠ WARNING

Be careful not to allow your hands, hair, jewelry or clothing to come into contact with, or get caught in, engine belts or the engine cooling fan. The engine cooling fan can start at any time.

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6. After the engine cools down, check the coolant level in the engine coolant reservoir tank with the engine running. Add coolant to the engine coolant reservoir tank if necessary. Have your vehicle repaired at a NISSAN dealer.

When towing your vehicle, all State (Provincial in Canada) and local regulations for towing must be followed. Incorrect towing equipment could damage your vehicle. Towing instructions are available from a NISSAN dealer. Local service operators are generally familiar with the applicable laws and procedures for towing. To assure proper towing and to prevent accidental damage to your vehicle, NISSAN recommends having a service operator tow your vehicle. It is advisable to have the service operator carefully read the following precautions:

⚠ WARNING

- **Never ride in a vehicle that is being towed.**
- **Never get under your vehicle after it has been lifted by a tow truck.**

⚠ CAUTION

- **When towing, make sure that the transmission, axles, steering system and powertrain are in working condition. If any of these conditions apply, dollies or a flatbed tow truck must be used.**
- **Always attach safety chains before towing.**

For information about towing your vehicle behind a recreational vehicle (RV), refer to “Flat towing” in the “Technical and consumer information” section of this manual.

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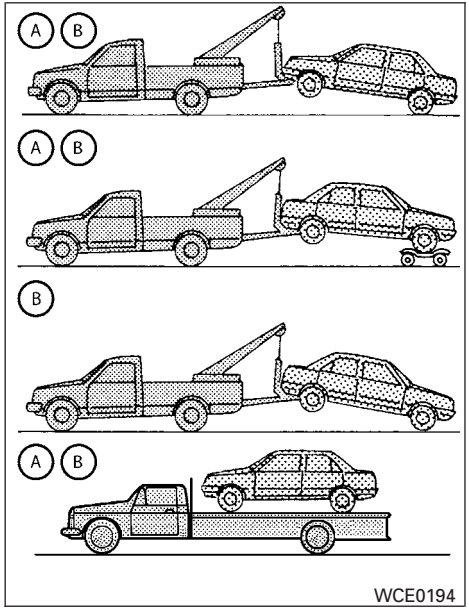
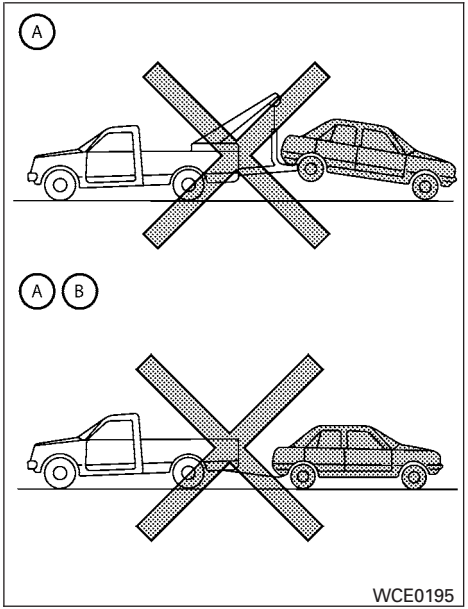


Ⓐ (CVT)/ (AT)
Ⓑ (M/T)

NISSAN recommends that your vehicle be towed with the driving (front) wheels off the ground or place the vehicle on a flat bed truck as illustrated.



Ⓐ (CVT)/ (AT)
Ⓑ (M/T)

TOWING RECOMMENDED BY NISSAN

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⚠ CAUTION

- **Never tow Continuously Variable Transmission (CVT)/ automatic transmission (A/T) models with the front wheels on the ground or four wheels on the ground (forward or backward), as this may cause serious and expensive damage to the transmission. If it is necessary to tow the vehicle with the rear wheels raised always use towing dollies under the front wheels.**
- **When towing Continuously Variable Transmission (CVT) / automatic transmission (AT) models with the front wheels on towing dollies, or when towing manual transmission (M/T) models with the front wheels on the ground:**
  - **Place the ignition switch in the OFF position, and secure the steering wheel in a straight-ahead position with a rope or similar device.**
  - **Move the shift selector to the N (Neutral) position.**
- **When towing Continuously Variable Transmission (CVT) / automatic transmission (A/T) or manual transmission (M/T) models with the rear wheels on the ground (if you do not use towing dollies): Always release the parking brake.**
- **Observe the following restricted towing speeds and distances for manual transmissions (M/T) only:**
  - **Speed: Below 50 MPH (80 km/h)**
  - **Distance: Less than 50 miles (80 km)**

VEHICLE RECOVERY (freeing a stuck vehicle)

Pulling a stuck vehicle

⚠ WARNING

To avoid vehicle damage, serious personal injury or death when recovering a stuck vehicle:

- **Contact a professional towing service to recover the vehicle if you have any questions regarding the recovery procedure.**
- **Do not use the vehicle tie-downs to tow or free a stuck vehicle.**
- **Only use devices specifically designed for vehicle recovery and follow the manufacturer's instructions.**
- **Always pull the recovery device straight out from the front of the vehicle. Never pull at an angle.**
- **Route recovery devices so they do not touch any part of the vehicle except the attachment point.**

If your vehicle is stuck in sand, snow, mud, etc., use a tow strap or other device designed specifically for vehicle recovery. Always follow the manufacturer's instructions for the recovery device.

Do not use the tie-down hooks for towing or vehicle recovery.

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Rocking a stuck vehicle

⚠WARNING

- **Stand clear of a stuck vehicle.**
- **Do not spin your tires at high speed. This could cause them to explode and result in serious injury. Parts of your vehicle could also overheat and be damaged.**

If your vehicle is stuck in sand, snow, mud, etc., use the following procedure:

1. Turn off the Vehicle Dynamic Control (VDC) System.
2. Make sure the area in front and behind the vehicle is clear of obstructions.
3. Turn the steering wheel right and left to clear an area around the front tires.
4. Slowly rock the vehicle forward and backward.
   - Shift back and forth between R (Reverse) and D (Drive) (CVT / A/Tmodels) or 1st (Low) and R (Reverse) (M/T models).
   - Apply the accelerator as little as possible to maintain the rocking motion.
   - Release the accelerator pedal before shifting between R (Reverse) and D (Drive) (CVT / A/Tmodels) or 1st (Low) and R (Reverse) (M/T models).
   - Do not spin the tires above 35 MPH (55 km/h).
5. If the vehicle cannot be freed after a few tries, contact a professional towing service to remove the vehicle.

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7 Appearance and care

Cleaning exterior 7-2
- Washing 7-2
- Waxing 7-2
- Removing spots 7-3
- Underbody 7-3
- Glass 7-3
- Aluminum alloy wheels (if so equipped) 7-3
- Chrome parts 7-4
- Tire dressings 7-4

Cleaning interior 7-4
- Air fresheners 7-5
- Floor mats 7-5
- Seat belts 7-6

Corrosion protection 7-6
- Most common factors contributing to vehicle corrosion 7-6
- Environmental factors influence the rate of corrosion 7-6
- To protect your vehicle from corrosion 7-6

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In order to maintain the appearance of your vehicle, it is important to take proper care of it.

To protect the paint surfaces, please wash your vehicle as soon as you can:

- after a rainfall to prevent possible damage from acid rain.
- after driving on coastal roads.
- when contaminants such as soot, bird droppings, tree sap, metal particles or bugs get on the paint surface.
- when dust or mud builds up on the surface.

Whenever possible, store or park your vehicle inside a garage or in a covered area.

When it is necessary to park outside, park in a shady area or protect the vehicle with a body cover.

Be careful not to scratch the paint surface when putting on or removing the body cover.

WASHING

Wash dirt off with a wet sponge and plenty of water. Clean the vehicle thoroughly using a mild soap, a special vehicle soap or general purpose dishwashing liquid mixed with clean, lukewarm (never hot) water.

⚠CAUTION

- **Do not use car washes that use acid in the detergent. Some car washes, especially brushless ones, use some acid for cleaning. The acid may react with some plastic vehicle components, causing them to crack. This could affect their appearance, and also could cause them not to function properly. Always check with your car wash to confirm that acid is not used.**
- **Do not wash the vehicle with strong household soap, strong chemical detergents, gasoline or solvents.**
- **Do not wash the vehicle in direct sunlight or while the vehicle body is hot, as the surface may become water-spotted.**
- **Avoid using tight-napped or rough cloths, such as washing mitts. Care must be taken when removing caked-on dirt or other foreign substances so the paint surface is not scratched or damaged.**

Rinse the vehicle thoroughly with plenty of clean water.

Inside flanges, seams and folds on the doors, hatches and hood are particularly vulnerable to the effects of road salt. Therefore, these areas must be cleaned regularly. Take care that the drain holes in the lower edge of the door are open. Spray water under the body and in the wheel wells to loosen the dirt and wash away road salt.

A damp chamois can be used to dry the vehicle to avoid water spots.

WAXING

Regular waxing protects the paint surface and helps retain new vehicle appearance. Polishing is recommended to remove built-up wax residue and to avoid a weathered appearance before re-applying wax.

A NISSAN dealer can assist you in choosing the proper product.

- Wax your vehicle only after a thorough washing. Follow the instructions supplied with the wax.
- Do not use a wax containing any abrasives, cutting compounds or cleaners that may damage the vehicle finish.

Machine compounding or aggressive polishing on a base coat/clear coat paint finish may dull the finish or leave swirl marks.

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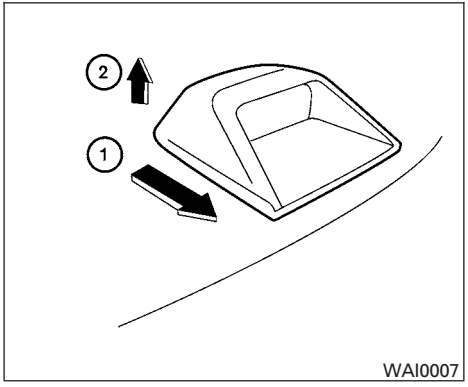
REMOVING SPOTS

Remove tar and oil spots, industrial dust, insects, and tree sap as quickly as possible from the surface of the paint to avoid lasting damage or staining. Special cleaning products are available at a NISSAN dealer or any automotive accessory store.

UNDERBODY

In areas where road salt is used in winter, it is necessary to clean the underbody regularly in order to prevent dirt and salt from building up and causing the acceleration of corrosion on the underbody and suspension. Before the winter period and again in the spring, the underseal must be checked and, if necessary, retreated.



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GLASS

When cleaning the rear window, it may be easier to clean if the high-mounted stop light (if so equipped) is removed first.

Be careful when removing the high-mounted stop light to reduce the risk of damaging the high-mounted stop light wires.

To remove the high-mounted stop light:

① Push toward rear of vehicle.

② Lift to remove.

The high-mounted stop light must be properly reinstalled before driving your vehicle.

Use glass cleaner to remove smoke and dust film from the glass surfaces. It is normal for glass to become coated with a film after the vehicle is parked in the hot sun. Glass cleaner and a soft cloth will easily remove this film.

⚠CAUTION

When cleaning the inside of the windows, do not use sharp-edged tools, abrasive cleaners or chlorine-based disinfectant cleaners. They could damage the electrical conductors, radio antenna elements or rear window defroster elements.

ALUMINUM ALLOY WHEELS (if so equipped)

Wash the wheels regularly with a sponge dampened in a mild soap solution, especially during winter months in areas where road salt is used. If not removed, road salt can discolor the wheels.

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⚠ CAUTION

Follow the directions below to avoid staining or discoloring the wheels:

- **Do not use a cleaner that uses strong acid or alkali contents to clean the wheels.**
- **Do not apply wheel cleaners to the wheels when they are hot. The wheel temperature should be the same as ambient temperature.**
- **Rinse the wheel to completely remove the cleaner within 15 minutes after the cleaner is applied.**

CHROME PARTS

Clean all chrome parts regularly with a non-abrasive chrome polish to maintain the finish.

TIRE DRESSINGS

NISSAN does not recommend the use of tire dressings. Tire manufacturers apply a coating to the tires to help reduce discoloration of the rubber. If a tire dressing is applied to the tires, it may react with the coating and form a compound. This compound may come off the tire while driving and stain the vehicle paint.

If you choose to use a tire dressing, take the following precautions:

- Use a water-based tire dressing. The coating on the tire dissolves more easily than with an oil-based tire dressing.
- Apply a light coat of tire dressing to help prevent it from entering the tire tread/grooves (where it would be difficult to remove).
- Wipe off excess tire dressing using a dry towel. Make sure the tire dressing is completely removed from the tire tread/grooves.
- Allow the tire dressing to dry as recommended by the tire dressing manufacturer.

Occasionally remove loose dust from the interior trim, plastic parts and seats using a vacuum cleaner or soft bristled brush. Wipe the vinyl and leather surfaces with a clean, soft cloth dampened in mild soap solution, then wipe clean with a dry, soft cloth.

Regular care and cleaning is required in order to maintain the appearance of the leather.

Before using any fabric protector, read the manufacturer's recommendations. Some fabric protectors contain chemicals that may stain or bleach the seat material.

Use a cloth dampened only with water to clean the meter and gauge lens.

⚠ WARNING

Do not use water or acidic cleaners (hot steam cleaners) on the seat. This can damage the seat or occupant classification sensor. This can also affect the operation of the air bag system and result in serious personal injury.

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⚠ CAUTION

- **Never use benzine, thinner or any similar material.**
- **Small dirt particles can be abrasive and damaging to leather surfaces and should be removed promptly. Do not use saddle soap, car waxes, polishes, oils, cleaning fluids, solvents, detergents or ammonia-based cleaners as they may damage the leather's natural finish.**
- **Never use fabric protectors unless recommended by the manufacturer.**
- **Do not use glass or plastic cleaner on meter or gauge lens covers. It may damage the lens cover.**

AIR FRESHENERS

Most air fresheners use a solvent that could affect the vehicle interior. If you use an air freshener, take the following precautions:

- Hanging-type air fresheners can cause permanent discoloration when they contact vehicle interior surfaces. Place the air freshener in a location that allows it to hang free and not contact an interior surface.
- Liquid-type air fresheners typically clip on the vents. These products can cause immediate damage and discoloration when spilled on interior surfaces.

Carefully read and follow the manufacturer's instructions before using the air fresheners.

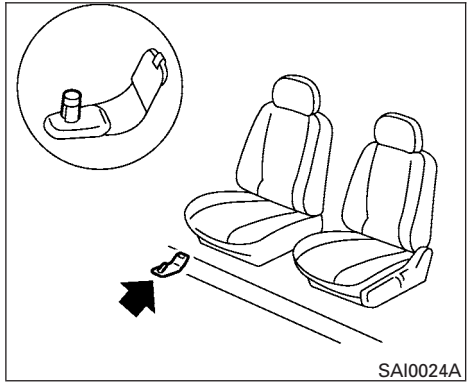
FLOOR MATS

⚠ WARNING

To avoid potential pedal interference that may result in a collision or injury:

- **NEVER place a floor mat on top of another floor mat in the driver front position.**
- **Use only genuine NISSAN floor mats specifically designed for use in your vehicle model. See your NISSAN dealer for more information.**
- **Properly position the mats in the floorwell using the floor mat positioning aid. See "Floor mat positioning aid" in this section.**

The use of genuine NISSAN floor mats can extend the life of your vehicle carpet and make it easier to clean the interior. Mats should be maintained with regular cleaning and replaced if they become excessively worn.



Floor mat positioning aid (driver's side only)

This vehicle includes a front floor mat bracket to act as a floor mat positioning aid. Genuine NISSAN floor mats have been specially designed for your vehicle model. The driver's side floor mat has a grommet hole incorporated in it. Position the mat by placing the floor mat bracket hook through the floor mat grommet hole while centering the mat in the floorwell.

Periodically check to make certain the mats are properly positioned.

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SEAT BELTS

The seat belts can be cleaned by wiping them with a sponge dampened in a mild soap solution. Allow the belts to dry completely in the shade before using them. See “Seat belt maintenance” in the “Safety – Seats, seat belts and supplemental restraint system” section of this manual.

⚠ WARNING

Do not allow wet seat belts to roll up in the retractor. NEVER use bleach, dye or chemical solvents to clean the seat belts, since these materials may severely weaken the seat belt webbing.

MOST COMMON FACTORS CONTRIBUTING TO VEHICLE CORROSION

- The accumulation of moisture-retaining dirt and debris in body panel sections, cavities, and other areas.
- Damage to paint and other protective coatings caused by gravel and stone chips or minor traffic accidents.

ENVIRONMENTAL FACTORS INFLUENCE THE RATE OF CORROSION

Moisture

Accumulation of sand, dirt and water on the vehicle body underside can accelerate corrosion. Wet floor coverings will not dry completely inside the vehicle and should be removed for drying to avoid floor panel corrosion.

Relative humidity

Corrosion will be accelerated in areas of high relative humidity, especially those areas where the temperatures stay above freezing and where atmospheric pollution exists and road salt is used.

Temperature

High temperatures accelerate the rate of corrosion to those parts which are not well ventilated.

Air pollution

Industrial pollution, the presence of salt in the air in coastal areas, or heavy road salt use accelerates the corrosion process. Road salt also accelerates the disintegration of paint surfaces.

TO PROTECT YOUR VEHICLE FROM CORROSION

- Wash and wax your vehicle often to keep the vehicle clean.
- Always check for minor damage to the paint and repair it as soon as possible.
- Keep drain holes at the bottom of the doors open to avoid water accumulation.
- Check the underbody for accumulation of sand, dirt or salt. If present, wash with water as soon as possible.

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⚠ CAUTION

- **NEVER remove dirt, sand or other debris from the passenger compartment by washing it out with a hose. Remove dirt with a vacuum cleaner or broom.**
- **Never allow water or other liquids to come in contact with electronic components inside the vehicle as this may damage them.**

Chemicals used for road surface de-icing are extremely corrosive. They accelerate corrosion and deterioration of underbody components such as the exhaust system, fuel and brake lines, brake cables, floor pan and fenders.

In winter, the underbody must be cleaned periodically.

For additional protection against rust and corrosion, which may be required in some areas, consult a NISSAN dealer.

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8 Maintenance and do-it-yourself

Maintenance requirements 8-2
General maintenance 8-2
Explanation of general maintenance items 8-2
Maintenance precautions 8-5
Engine compartment check locations 8-6
Engine cooling system 8-7
Checking engine coolant level 8-8
Changing engine coolant 8-8
Engine oil 8-9
Checking engine oil level 8-9
Changing engine oil 8-10
Changing engine oil filter 8-11
4-speed automatic transmission fluid (if so equipped) 8-11
Continuously Variable Transmission (CVT) fluid (if so equipped) 8-12
Brake and clutch (if so equipped) fluid 8-12
Windshield-washer fluid 8-13
Windshield-washer fluid reservoir 8-13
Battery 8-13
Jump starting 8-15
Variable voltage control system 8-15
Drive belt 8-16
Spark plugs 8-17
Replacing spark plugs 8-17
Air cleaner 8-17
Windshield wiper blades 8-18
Cleaning 8-18
Replacing 8-19
Brakes 8-20
Fuses 8-20
Engine compartment 8-21
Passenger compartment 8-22
Battery replacement 8-23
Keyfob (if so equipped) 8-24
NISSAN Intelligent Key® (if so equipped) 8-24
Lights 8-26
Headlights 8-26
Exterior and interior lights 8-28
Wheels and tires 8-32
Tire pressure 8-32
Tire labeling 8-36
Types of tires 8-38
Tire chains 8-39
Changing wheels and tires 8-39

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MAINTENANCE REQUIREMENTS

Your NISSAN has been designed to have minimum maintenance requirements with long service intervals to save you both time and money. However, some day-to-day and regular maintenance is essential to maintain your NISSAN's good mechanical condition, as well as its emissions and engine performance.

It is the owner's responsibility to make sure that the scheduled maintenance, as well as general maintenance, is performed.

As the vehicle owner, you are the only one who can ensure that your vehicle receives proper maintenance. You are a vital link in the maintenance chain.

Scheduled maintenance

For your convenience, both required and optional scheduled maintenance items are described and listed in your "NISSAN Service and Maintenance Guide". You must refer to that guide to ensure that necessary maintenance is performed on your NISSAN at regular intervals.

General maintenance

General maintenance includes those items which should be checked during normal day-to-day operation. They are essential for proper vehicle operation. It is your responsibility to perform these maintenance procedures regularly as prescribed.

Performing general maintenance checks requires minimal mechanical skill and only a few general automotive tools.

These checks or inspections can be done by you, a qualified technician, or, if you prefer, a NISSAN dealer.

Where to go for service

If maintenance service is required or your vehicle appears to malfunction, have the systems checked and corrected by a NISSAN dealer.

NISSAN technicians are well-trained specialists who are kept up-to-date with the latest service information through technical bulletins, service tips, and in-dealership training programs. They are completely qualified to work on NISSAN vehicles **before** they work on your vehicle, rather than after they have worked on it.

You can be confident that a NISSAN dealer's service department performs the best job to meet the maintenance requirements on your vehicle — in a reliable and economical way.

GENERAL MAINTENANCE

During the normal day-to-day operation of the vehicle, general maintenance should be performed regularly as prescribed in this section. If you detect any unusual sounds, vibrations or smells, be sure to check for the cause or have a NISSAN dealer do it promptly. In addition, you should notify a NISSAN dealer if you think that repairs are required.

When performing any checks or maintenance work, closely observe the "Maintenance precautions" later in this section.

EXPLANATION OF GENERAL MAINTENANCE ITEMS

Additional information on the following items with " * " is found later in this section.

Outside the vehicle

The maintenance items listed here should be performed from time to time, unless otherwise specified.

Doors and engine hood Check that the doors and engine hood operate properly. Also ensure that all latches lock securely. Lubricate hinges, latches, latch pins, rollers and links as necessary. Make sure that the secondary latch keeps the hood from opening when the primary latch is released.

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When driving in areas using road salt or other corrosive materials, check lubrication frequently.

Lights* Clean the headlights on a regular basis. Make sure that the headlights, stop lights, tail lights, turn signal lights, and other lights are all operating properly and installed securely. Also check headlight aim.

Road wheel nuts (lug nuts)* When checking the tires, make sure no wheel nuts are missing, and check for any loose wheel nuts. Tighten if necessary.

Tire rotation* Tires should be rotated every 7,500 miles (12,000 km).

Tires* Check the pressure with a gauge often and always prior to long distance trips. If necessary, adjust the pressure in all tires, including the spare, to the pressure specified. Check carefully for damage, cuts or excessive wear.

Tire Pressure Monitoring System (TPMS) transmitter components Replace the TPMS transmitter grommet seal, valve core and cap when the tires are replaced due to wear or age.

Wheel alignment and balance If the vehicle should pull to either side while driving on a straight and level road, or if you detect uneven or abnormal tire wear, there may be a need for wheel alignment. If the steering wheel or seat vibrates at normal highway speeds, wheel balancing may be needed.

- For additional information regarding tires, refer to “Important Tire Safety Information” (US) or “Tire Safety Information” (Canada) in the Warranty Information Booklet.

Windshield Clean the windshield on a regular basis. Check the windshield at least every six months for cracks or other damage. Have a damaged windshield repaired by a qualified repair facility.

Windshield wiper blades* Check for cracks or wear if they do not wipe properly.

Inside the vehicle

The maintenance items listed here should be checked on a regular basis, such as when performing periodic maintenance, cleaning the vehicle, etc.

Additional information on the following items with an “*” is found later in this section.

Accelerator pedal Check the pedal for smooth operation and make sure the pedal does not bind or require uneven effort. Keep the floor mat away from the pedal.

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Brake pedal Check the pedal for smooth operation. If the brake pedal suddenly goes down further than normal, the pedal feels spongy or the vehicle seems to take longer to stop, see a NISSAN dealer immediately. Keep the floor mat away from the pedal.

Brakes Check that the brakes do not pull the vehicle to one side when applied.

Continuously Variable Transmission (CVT) P (Park) position mechanism (if so equipped) On a fairly steep hill check that the vehicle is held securely with the shift selector in the P (Park) position without applying any brakes.

Parking brake Check the parking brake operation regularly. The vehicle should be securely held on a fairly steep hill with only the parking brake applied. If the parking brake needs adjustment, see a NISSAN dealer.

Seats Check seat position controls such as seat adjusters, seat back recliner, etc. to ensure they operate smoothly and all latches lock securely in every position. Check that the head restraints and headrests move up and down smoothly and the locks hold securely in all latched positions.

Seat belts Check that all parts of the seat belt system (for example, buckles, anchors, adjusters and retractors) operate properly and smoothly,

and are installed securely. Check the belt webbing for cuts, fraying, wear or damage.

Steering wheel Check for changes in the steering system, such as excessive freeplay, hard steering or strange noises.

Warning lights and chimes Make sure all warning lights and chimes are operating properly.

Windshield wiper and washer* Check that the wipers and washer operate properly and that the wipers do not streak.

Windshield defroster Check that the air comes out of the defroster outlets properly and in sufficient quantity when operating the heater or air conditioner.

Under the hood and vehicle

The maintenance items listed here should be checked periodically (for example, each time you check the engine oil or refuel).

Battery* Check the fluid level in each cell. It should be between the MAX and MIN lines. Vehicles operated in high temperatures or under severe conditions require frequent checks of the battery fluid level.

NOTE:

Care should be taken to avoid situations that can lead to potential battery discharge and potential no-start conditions such as: 1. Installation or extended use of electronic accessories that consume battery power when the engine is not running (Phone chargers, GPS, DVD players, etc.) 2. Vehicle is not driven regularly and/or only driven short distances. In these cases, the battery may need to be charged to maintain battery health.

Brake and clutch (if so equipped) fluid levels* Make sure that the brake and clutch fluid level is between the MIN and MAX lines on the reservoir.

Engine coolant level* Check the coolant level when the engine is cold.

Engine drive belts* Make sure the drive belts are not frayed, worn, cracked or oily.

Engine oil level* Check the level after parking the vehicle on a level surface with the engine off. Wait more than 10 minutes for the oil to drain back into the oil pan.

Exhaust system Make sure there are no loose supports, cracks or holes. If the sound of the exhaust seems unusual or there is a smell of exhaust fumes, immediately have the exhaust system inspected by a NISSAN dealer. See the carbon monoxide warning in the “Starting and driving” section of this manual.

Fluid leaks Check under the vehicle for fuel, oil, water or other fluid leaks after the vehicle has been parked for a while. Water dripping from the air conditioner (if so equipped) after use is normal. If you should notice any leaks or if gasoline fumes are evident, check for the cause and have it corrected immediately.

Radiator and hoses Check the front of the radiator and clean off any dirt, insects, leaves, etc., that may have accumulated. Make sure the hoses have no cracks, deformation, rot or loose connections.

Underbody The underbody is frequently exposed to corrosive substances such as those used on icy roads or to control dust. It is very important to remove these substances from the underbody, otherwise rust may form on the floor pan, frame, fuel lines and exhaust system. At the end of winter, the underbody should be thoroughly flushed with plain water, in those areas where mud and dirt may have accumulated. See the “Appearance and care” section of this manual.

Windshield–washer fluid* Check that there is adequate fluid in the reservoir.

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MAINTENANCE PRECAUTIONS

When performing any inspection or maintenance work on your vehicle, always take care to prevent serious accidental injury to yourself or damage to the vehicle. The following are general precautions which should be closely observed.

⚠ WARNING

- **Park the vehicle on a level surface, apply the parking brake securely and block the wheels to prevent the vehicle from moving. For manual transmission models, move the shift selector to N (Neutral). For CVT models, move the shift selector to P (Park).**
- **Be sure the ignition switch is placed in the OFF or LOCK position when performing any parts replacement or repairs.**
- **Your vehicle is equipped with an automatic engine cooling fan. It may come on at any time without warning, even if the ignition switch is placed in the OFF position and the engine is not running. To avoid injury, always disconnect the negative battery cable before working near the fan.**
- **If you must work with the engine running, keep your hands, clothing, hair and tools away from moving fans, belts and any other moving parts.**
- **It is advisable to secure or remove any loose clothing and remove any jewelry, such as rings, watches, etc. before working on your vehicle.**
- **Always wear eye protection whenever you work on your vehicle.**
- **If you must run the engine in an enclosed space such as a garage, be sure there is proper ventilation for exhaust gases to escape.**
- **Never get under the vehicle while it is supported only by a jack. If it is necessary to work under the vehicle, support it with safety stands.**
- **Keep smoking materials, flame and sparks away from the fuel tank and battery.**
- **The fuel filter or fuel lines should be serviced by a NISSAN dealer because the fuel lines are under high pressure even when the engine is off.**

⚠ CAUTION

- **Do not work under the hood while the engine is hot. Turn the engine off and wait until it cools down.**
- **Avoid contact with used engine oil and coolant. Improperly disposed engine oil, engine coolant and/or other vehicle fluids can damage the environment. Always conform to local regulations for disposal of vehicle fluid.**
- **Never leave the engine or the transmission related component harness connector disconnected while the ignition switch is in the ON position.**
- **Never connect or disconnect the battery or any transistorized component while the ignition switch is in the ON position.**

This “Maintenance and do-it-yourself” section gives instructions regarding only those items which are relatively easy for an owner to perform.

A genuine NISSAN service manual is also available. See “Owner’s Manual/Service Manual order information” in the “Technical and consumer information” section of this manual.

You should be aware that incomplete or improper servicing may result in operating difficulties or excessive emissions, and could affect warranty coverage. **If in doubt about any servicing, have it done by a NISSAN dealer.**

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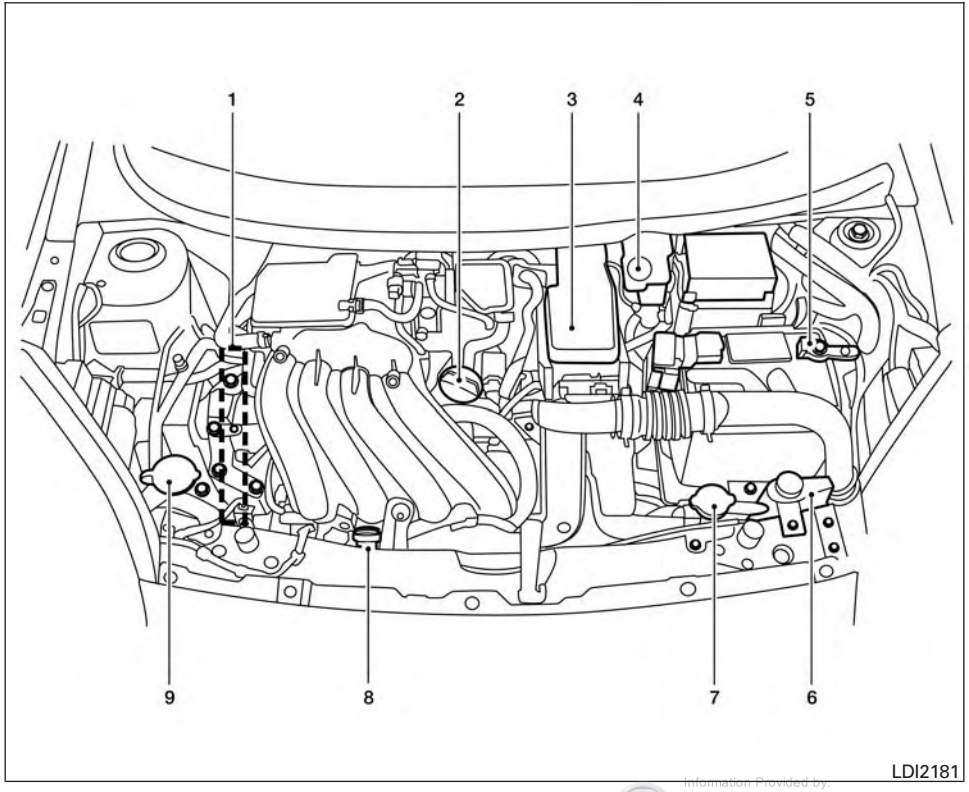
ENGINE COMPARTMENT CHECK LOCATIONS



HR16DE engine

1. Drive belt location
2. Engine oil filler cap
3. Air cleaner
4. Brake and clutch (*1) fluid reservoir
5. Battery
6. Engine coolant reservoir
7. Radiator cap
8. Engine oil dipstick
9. Windshield-washer fluid reservoir

*1 For Manual Transmission (M/T) model

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The engine cooling system is filled at the factory with a pre-diluted mixture of 50% Genuine NISSAN Long Life Antifreeze/Coolant (blue) and 50% water to provide year-round anti-freeze and coolant protection. The antifreeze solution contains rust and corrosion inhibitors. Additional engine cooling system additives are not necessary.

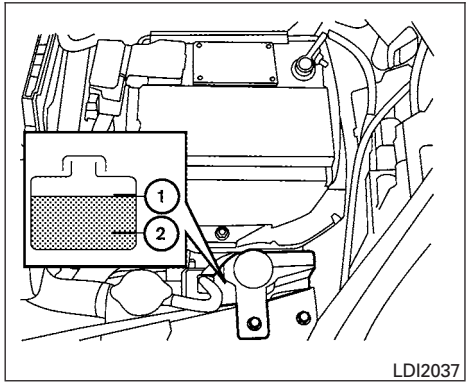
⚠WARNING

- **Never remove the radiator or coolant reservoir cap when the engine is hot. Wait until the engine and radiator cool down. Serious burns could be caused by high pressure fluid escaping from the radiator. See precautions in "If your vehicle overheats" found in the "In case of emergency" section of this manual.**
- **The radiator is equipped with a pressure type radiator cap. To prevent engine damage, use only a genuine NISSAN radiator cap.**

⚠CAUTION

- **Never use any cooling system additives such as radiator sealer. Additives may clog the cooling system and cause damage to the engine, transmission and/or cooling system.**
- **When adding or replacing coolant, be sure to use only Genuine NISSAN Long Life Antifreeze/Coolant (blue) or equivalent. Genuine NISSAN Long Life Antifreeze/Coolant (blue) is pre-diluted to provide antifreeze protection to -34° F (-37° C). If additional freeze protection is needed due to weather where you operate your vehicle, add Genuine NISSAN Long Life Antifreeze/Coolant (blue) concentrate following the directions on the container. If an equivalent coolant other than Genuine NISSAN Long Life Antifreeze/Coolant (blue) is used, follow the coolant manufacturer's instructions to maintain minimum antifreeze protection to -34° F (-37° C). The use of other types of coolant solutions other than Genuine NISSAN Long Life Antifreeze/Coolant (blue) or equivalent may damage the engine cooling system.**
- **The life expectancy of the factory-fill coolant is 105,000 miles (168,000 km) or 7 years. Mixing any other type of coolant other than Genuine NISSAN Long Life Antifreeze/Coolant (blue), including Genuine NISSAN Long Life Antifreeze/Coolant (green), or the use of non-distilled water will reduce the life expectancy of the factory-fill coolant. Refer to the Nissan Service and Maintenance Guide for more details.**

Information Provided by:
DEALER E-PROCESS



CHECKING ENGINE COOLANT LEVEL

Check the coolant level **in the reservoir when the engine is cold.** If the coolant level is below the MIN level ②, add coolant to the MAX level ①. If the reservoir is empty, check the coolant level in the radiator **when the engine is cold.** If there is insufficient coolant in the radiator, fill the radiator with coolant up to the filler opening and also add it to the reservoir up to the MAX level ①.

This vehicle contains Genuine NISSAN Long Life Antifreeze/Coolant (blue). The life expectancy of the factory-fill coolant is 105,000 miles (168,000 km) or 7 years. Mixing any other type of coolant or the use of non-distilled water will reduce the life expectancy of the factory-fill coolant. Refer to the NISSAN Service and Maintenance Guide for more details.

If the cooling system frequently requires coolant, have it checked by a NISSAN dealer.

CHANGING ENGINE COOLANT

A NISSAN dealer can change the engine coolant. The service procedure can be found in the NISSAN Service Manual.

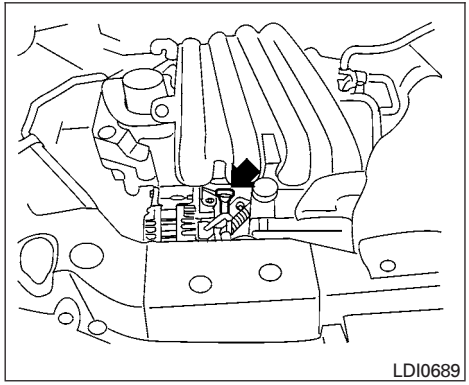
Improper servicing can result in reduced heater performance and engine overheating.

⚠ WARNING

- **To avoid the danger of being scalded, never change the coolant when the engine is hot.**
- **Never remove the radiator cap when the engine is hot. Serious burns could be caused by high pressure fluid escaping from the radiator.**
- **Avoid direct skin contact with used coolant. If skin contact is made, wash thoroughly with soap or hand cleaner as soon as possible.**
- **Keep coolant out of the reach of children and pets.**

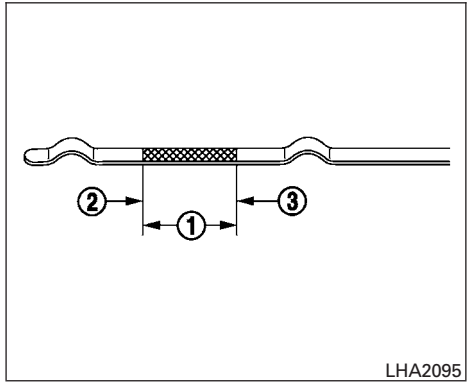
Engine coolant must be disposed of properly. Check your local regulations.

Information Provided by:
DEALER E-PROCESS


LDI0689

CHECKING ENGINE OIL LEVEL

1. Park the vehicle on a level surface and apply the parking brake.
2. Start the engine and let it idle until it reaches operating temperature.
3. Turn off the engine. **Wait more than 10 minutes for the oil to drain back into the oil pan.**
4. Remove the dipstick and wipe it clean. Reinsert it all the way.



LHA2095

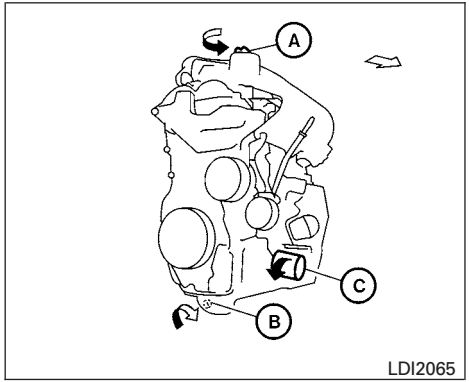
5. Remove the dipstick again and check the oil level. It should be between the H (High) and L (Low) marks ①. This is the normal operating oil level range. If the oil level is below the L (Low) mark ②, remove the oil filler cap and pour recommended oil through the opening. **Do not overfill ③.**
6. Recheck oil level with the dipstick.

It is normal to add some engine oil between oil maintenance intervals depending on the severity of operating conditions or depending on the property of the engine oil used. More engine oil is consumed by frequent acceleration/deceleration especially when the engine rpm is high. Consumption is likely to be higher when the engine is new. If the rate of oil consumption, after driving for 3,000 miles (5,000 km), is more than 0.5 liter per 600 miles (1,000 km), consult a NISSAN dealer

⚠CAUTION

Oil level should be checked regularly. Operating the engine with an insufficient amount of oil can damage the engine, and such damage is not covered by warranty.

Information Provided by:
DEALER E-PROCESS



Ⓐ Oil filler cap

Ⓑ Oil drain plug

Ⓒ Oil filter

CHANGING ENGINE OIL

1. Park the vehicle on a level surface and apply the parking brake.
2. Start the engine and let it idle until it reaches operating temperature, then turn it off.
3. Remove the oil filler cap Ⓐ by turning it counterclockwise.
4. Place a large drain pan under the drain plug Ⓑ.
5. Remove the drain plug Ⓑ with a wrench by turning it counterclockwise and completely drain the oil.

   If the oil filter is to be changed, remove and replace it at this time. See “Changing engine oil filter” later in this section.

⚠WARNING

- **Prolonged and repeated contact with used engine oil may cause skin cancer.**
- **Try to avoid direct skin contact with used oil. If skin contact is made, wash thoroughly with soap or hand cleaner as soon as possible.**
- **Keep used engine oil out of reach of children.**

⚠CAUTION

- **Be careful not to burn yourself. The engine oil may be hot.**
- **Waste oil must be disposed of properly.**
- **Check your local regulations.**

6. Clean and reinstall the drain plug and a new washer. Securely tighten the drain plug with a wrench. Do not use excessive force.

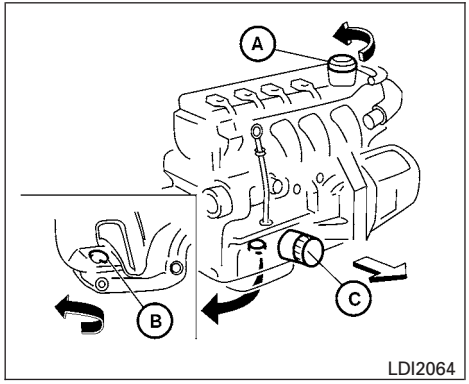
Drain plug tightening torque:
22 - 29 ft-lb (29 - 39 N·m)

7. Refill engine with recommended oil through the oil filler opening, then install the oil filler cap securely.

   See “Capacities and recommended fuel/lubricants” in the “Technical and consumer information” section of this manual for drain and refill capacity.

   The drain and refill capacity depends on the oil temperature and drain time. Use these specifications for reference only. Always use the dipstick to determine when the proper amount of oil is in the engine.
8. Start the engine. Check for leakage around the drain plug and oil filter. Correct as required.
9. Turn the engine off and wait more than 10 minutes. Check the oil level with the dipstick. Add engine oil if necessary.

Information Provided by:
DEALER E-PROCESS



Ⓐ Oil filler cap

Ⓑ Oil drain plug

Ⓒ Oil filter

CHANGING ENGINE OIL FILTER

1. Park the vehicle on a level surface and apply the parking brake.
2. Turn the engine off.
3. Place a large drain pan under the oil filter Ⓒ.
4. Loosen the oil filter with an oil filter wrench by turning it counterclockwise. Then remove the oil filter by turning it by hand.

⚠CAUTION

Be careful not to burn yourself. The engine oil may be hot.

5. Wipe the engine oil filter sealing surface with a clean rag.

⚠CAUTION

Be sure to remove any old gasket material remaining on the sealing surface of the engine. Failure to do so could lead to engine damage.

6. Coat the gasket on the new filter with clean engine oil.
7. Screw on the oil filter until a slight resistance is felt, then tighten an additional 2/3 turn.
8. Start the engine and check for leakage around the oil filter. Correct as required.
9. Turn the engine off and wait more than 10 minutes. Check the oil level. Add engine oil if necessary.

4-SPEED AUTOMATIC TRANSMISSION FLUID (if so equipped)

⚠WARNING

- **When the engine is running, keep hands, jewelry and clothing away from any moving parts such as the cooling fan and drive belts.**
- **Automatic transmission fluid is poisonous and should be stored carefully in marked containers out of the reach of children.**

Information Provided by:
DEALER E-PROCESS

CONTINUOUSLY VARIABLE TRANSMISSION (CVT) FLUID (if so equipped)

⚠ CAUTION

- **Use only Genuine NISSAN CVT Fluid NS-3. Do not mix with other fluids.**
- **Using transmission fluid other than Genuine NISSAN CVT Fluid NS-3 will damage the CVT, which is not covered by the warranty.**

When checking or replacement of CVT fluid is required, we recommend your NISSAN dealer for servicing.

BRAKE AND CLUTCH (if so equipped) FLUID

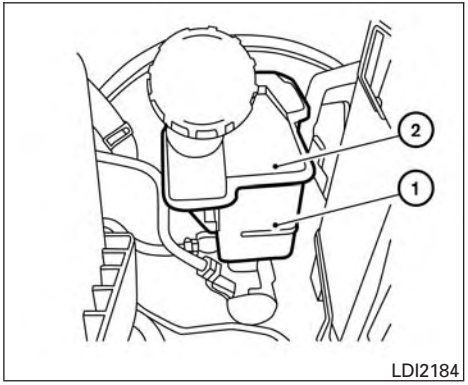
For further brake and clutch fluid specification information, refer to “Capacities and recommended fuel/lubricants” in the “Technical and consumer information” section of this manual.

⚠ WARNING

- **Use only new fluid from a sealed container. Old, inferior or contaminated fluid may damage the brake and clutch (if so equipped) systems. The use of improper fluids can damage the brake and clutch system and affect the vehicle’s stopping ability.**
- **Clean the filler cap before removing.**
- **Brake and clutch fluid is poisonous and should be stored carefully in marked containers out of reach of children.**

⚠ CAUTION

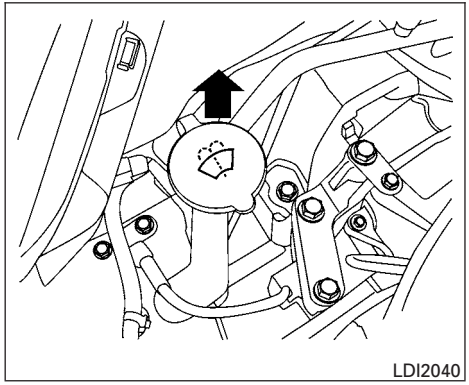
Do not spill the fluid on any painted surfaces. This will damage the paint. If fluid is spilled, immediately wash the surface with water.



LDI2184

Check the fluid level in the reservoir. If the level is below the MIN line①, or the brake warning light comes on, add genuine NISSAN Brake Fluid or equivalent **DOT 3** fluid up to the MAX line②. If fluid must be added frequently, the system should be checked by a NISSAN dealer.

Information Provided by: DEALER E-PROCESS


LDI2040

WINDSHIELD-WASHER FLUID RESERVOIR

Add a washer solvent to the windshield-washer fluid reservoir for better cleaning. In the winter season, add a windshield-washer antifreeze. Follow the manufacturer's instructions for the mixture ratio.

Refill the reservoir more frequently when driving conditions require an increased amount of windshield-washer fluid.

Recommended fluid is Genuine NISSAN Windshield-Washer Fluid Concentrate Cleaner & Anti-freeze or equivalent.

⚠CAUTION

- **Do not substitute engine anti-freeze coolant for windshield-washer solution. This may result in damage to the paint.**
- **Do not fill the windshield-washer fluid reservoir with washer fluid concentrates at full strength. Some methyl alcohol based washer fluid concentrates may permanently stain the grille if spilled while filling the windshield-washer fluid reservoir.**
- **Pre-mix windshield-washer fluid concentrates with water to the manufacturer's recommended levels before pouring the fluid into the windshield-washer fluid reservoir. Do not use the windshield-washer fluid reservoir to mix the washer fluid concentrate and water.**

- Keep the battery surface clean and dry. Clean the battery with a solution of baking soda and water.
- Make certain the terminal connections are clean and securely tightened.
- If the vehicle is not to be used for 30 days or longer, disconnect the negative (-) battery terminal cable to prevent discharge.

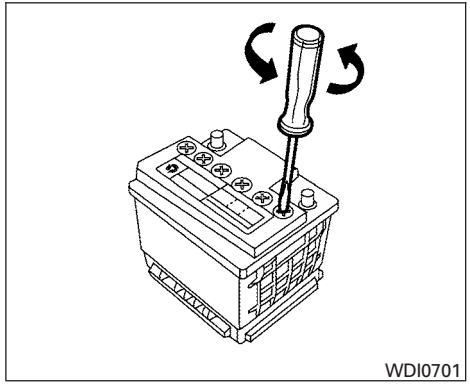
NOTE:

Care should be taken to avoid situations that can lead to potential battery discharge and potential no-start conditions such as: 1. Installation or extended use of electronic accessories that consume battery power when the engine is not running (Phone chargers, GPS, DVD players, etc.) 2. Vehicle is not driven regularly and/or only driven short distances. In these cases, the battery may need to be charged to maintain battery health.

Information Provided by:
DEALER E-PROCESS

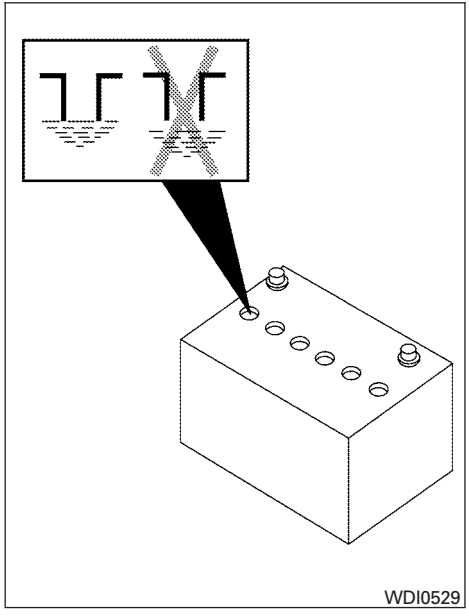
⚠WARNING

- **Do not expose the battery to electrical sparks, flames or smoking. Hydrogen gas generated by the battery is explosive. Explosive gases can cause blindness or injury. Do not allow battery fluid to contact your skin, eyes, fabrics or painted surfaces. Sulfuric acid can cause blindness or severe burns. After touching a battery or battery cap, do not touch or rub your eyes. Thoroughly wash your hands. If the acid contacts your eyes, skin or clothing, immediately flush with water for at least 15 minutes and seek medical attention.**
- **Do not operate the vehicle if the fluid in the battery is low. Low battery fluid can cause a higher load on the battery which can generate heat, reduce battery life, and in some cases lead to an explosion.**
- **When working on or near a battery, always wear suitable eye protection and remove all jewelry.**
- **Do not tip the battery. Keep the vent caps tight and the battery level.**
- **Battery posts, terminals and related accessories contain lead and lead compounds. Wash hands after handling.**
- **Keep battery out of the reach of children.**



1. Remove the battery vent caps with a screwdriver as shown.

Information Provided by:
DEALER E-PROCESS


WDI0529

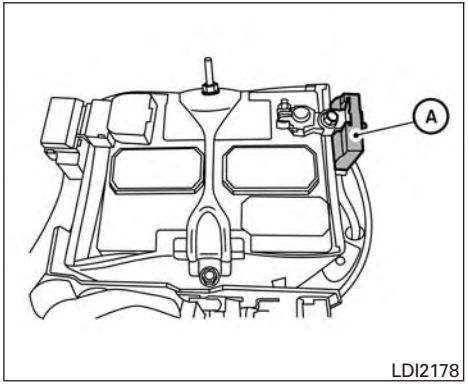
2. Check the fluid level in each cell. If it is necessary to add fluid , add only distilled water to bring the level up to the bottom of the filler opening. **Do not overfill.**
3. Reinstall the battery vent caps.

Vehicles operated in high temperatures or under severe conditions require frequent checks of the battery fluid level.

JUMP STARTING

If jump starting is necessary, see “Jump starting” in the “In case of emergency” section of this manual. If the engine does not start by jump starting, the battery may have to be replaced. Contact a NISSAN dealer.

VARIABLE VOLTAGE CONTROL SYSTEM



LDI2178

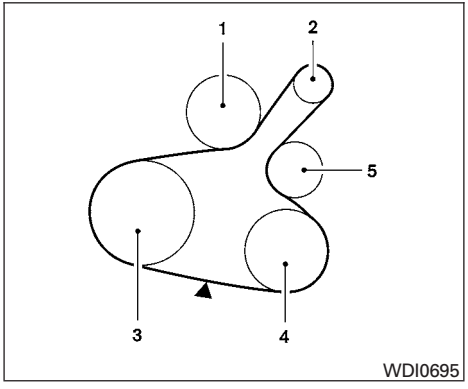
⚠ CAUTION

- **Do not ground accessories directly to the battery terminal. Doing so will bypass the variable voltage control system and the vehicle battery may not charge completely.**
- **Use electrical accessories with the engine running to avoid discharging the vehicle battery.**

Your vehicle is equipped with a variable voltage control system. This system measures the amount of electrical discharge from the battery and controls voltage generated by the generator.

Information Provided by:
DEALER E-PROCESS

The current sensor Ⓐ is located near the battery along the negative battery cable. If you add electrical accessories to your vehicle, be sure to ground them to a suitable body ground such as the frame or engine block area.



1. Water pump
2. Generator
3. Crankshaft pulley
4. Air conditioner compressor (if so equipped)
5. Manual tensioner

▲ Tension checking point

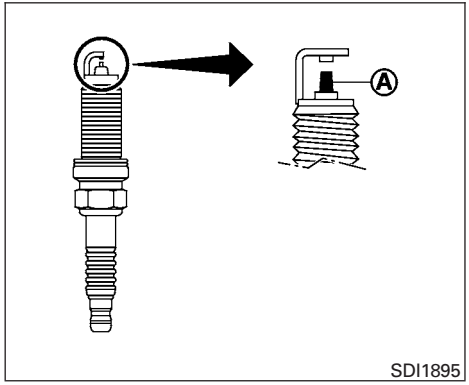
⚠WARNING

Be sure the ignition switch is placed in the OFF or LOCK position before servicing drive belt. The engine could rotate unexpectedly.

1. Visually inspect the belt for signs of unusual wear, cuts, or fraying. If the belt is in poor condition, have it replaced or adjusted by a NISSAN dealer.
2. Have the belt checked regularly for condition.

Information Provided by:
DEALER E-PROCESS

SPARK PLUGS



SDI1895

REPLACING SPARK PLUGS

Platinum-tipped spark plugs

It is not necessary to replace platinum-tipped Ⓐ spark plugs as frequently as conventional type spark plugs because they last much longer. Follow the maintenance log shown in the “NISSAN Service and Maintenance Guide”. Do not service platinum-tipped spark plugs by cleaning or regapping.

- **Always replace spark plugs with recommended or equivalent ones.**

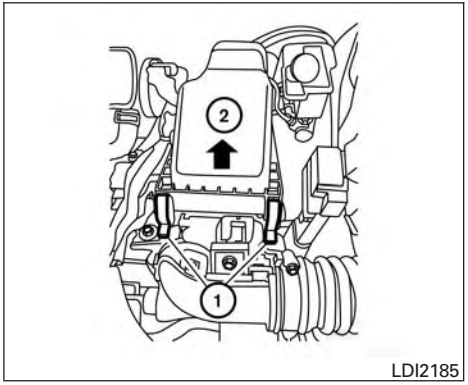
⚠WARNING

Be sure the engine and ignition switch are off and that the parking brake is engaged securely.

⚠CAUTION

Be sure to use the correct socket to remove the spark plugs. An incorrect socket can damage the spark plugs.

AIR CLEANER



LDI2185

⚠WARNING

- **Operating the engine with the air cleaner filter off can cause you or others to be burned. The air cleaner filter not only cleans the intake air, it also stops the flame if the engine backfires. If the air cleaner is not installed and the engine backfires, you could be burned. Never drive with the air cleaner filter off. Be cautious working on the engine when the air cleaner is off.**

To remove the filter from the air cleaner, release the retaining clips ①, then release the holders at the back of the unit. Pull the unit upward ②.

Information Provided by:
DEALER E-PROCESS

The viscous paper type filter element should not be cleaned and reused. The dry paper type filter element may be cleaned and reused. Replace the air filter according to the maintenance log shown in a separate maintenance booklet.

When replacing the air filter, wipe the inside of the air cleaner housing and the cover with a damp cloth.

CLEANING

If your windshield is not clear after using the windshield washer or if a wiper blade chatters when running, wax or other material may be on the blade or windshield.

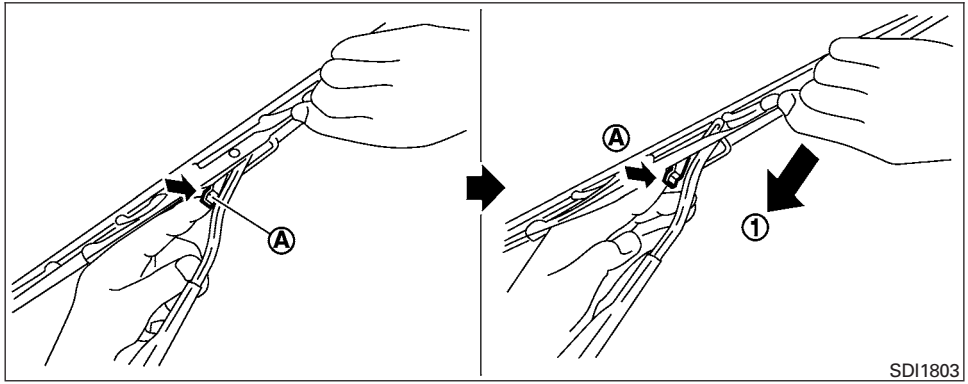
Clean the outside of the windshield with a washer fluid or a mild detergent. Your windshield is clean if beads do not form when rinsing with clear water.

Clean each blade by wiping it with a cloth soaked in a washer fluid or a mild detergent. Then rinse the blades with clear water. If your windshield is still not clear after cleaning the blades and using the wiper, install new windshield wiper blades.

⚠CAUTION

Worn windshield wiper blades can damage the windshield and impair driver vision.

Information Provided by:
DEALER E-PROCESS



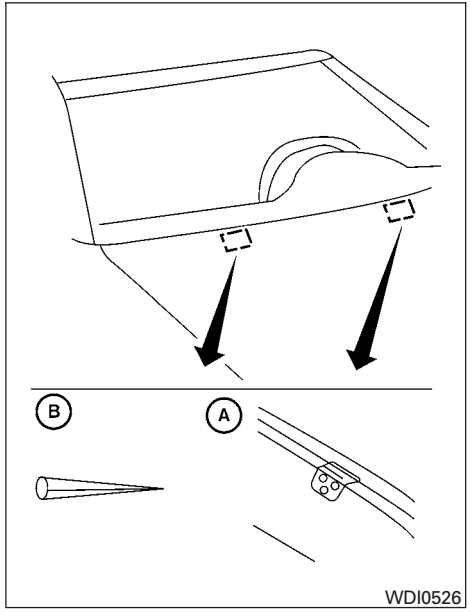
REPLACING

Replace the wiper blades if they are worn.

1. Lift the wiper arm away from the windshield.
2. Push and hold the release tab Ⓐ, and then move the wiper blade down ① the wiper arm to remove.
3. Remove the wiper blade.
4. Insert the new wiper blade onto the wiper arm until it clicks into place.

⚠CAUTION

- **After wiper blade replacement, return the wiper arm to its original position; otherwise it may be damaged when the hood is opened.**
- **Make sure the wiper blades contact the glass; otherwise the arms may be damaged from wind pressure.**



Be careful not to let anything get into the washer nozzle Ⓐ. This may cause clogging or improper windshield washer operation. If something gets into the nozzle, remove it with a needle or small pin Ⓑ.

Information Provided by:
DEALER E-PROCESS

If the brakes do not operate properly, have the brakes checked by a NISSAN dealer.

Self-adjusting brakes

Your vehicle is equipped with self-adjusting brakes.

The front disc-type brakes self-adjust every time the brake pedal is applied. The rear drum-type brakes self-adjust every time the parking brake is applied.

⚠WARNING

See a NISSAN dealer for a brake system check if the brake pedal height does not return to normal.

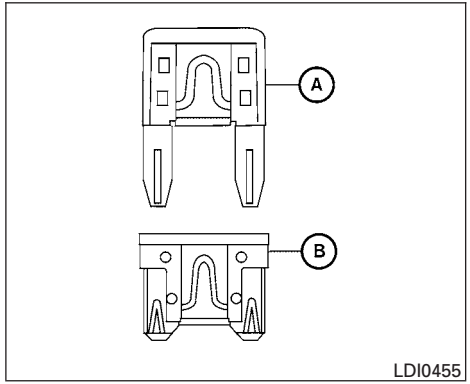
Brake pad wear indicators

The disc brake pads on your vehicle have audible wear indicators. When a brake pad requires replacement, a high pitched scraping or screeching sound will be heard when the vehicle is in motion. The noise will be heard whether or not the brake pedal is depressed. Have the brakes checked as soon as possible if the wear indicator sound is heard.

Under some driving or climate conditions, occasional brake squeak, squeal or other noise may be heard. Occasional brake noise during light to moderate stops is normal and does not affect the function or performance of the brake system.

Proper brake inspection intervals should be followed. For more information regarding brake inspections, see the appropriate maintenance schedule information in the “NISSAN Service and Maintenance Guide”.

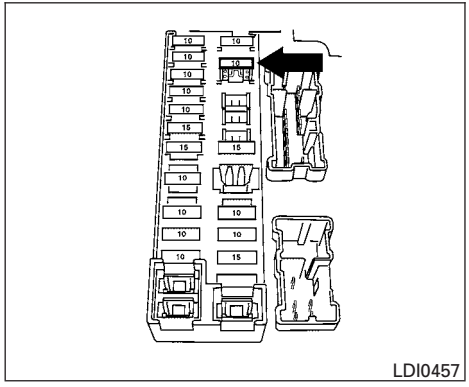
Information Provided by:
DEALER E-PROCESS



Two types of fuses are used. Type Ⓐ is used in the fuse boxes in the engine compartment. Type Ⓑ is used in the passenger compartment fuse box.

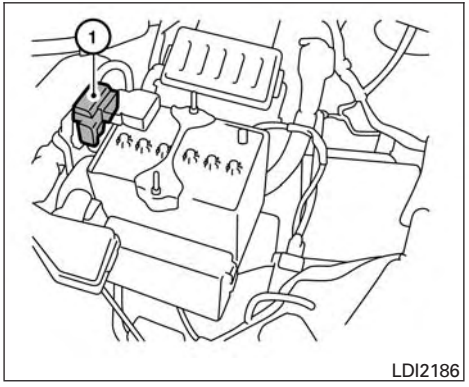
Type A fuses are provided as spare fuses. They are stored in the passenger compartment fuse box.

Type A fuses can be installed in the engine compartment and passenger compartment fuse boxes.



If a type A fuse is used to replace a type B fuse, the type A fuse will not be level with the fuse pocket as shown in the illustration. This will not affect the performance of the fuse. Make sure the fuse is installed in the fuse box securely.

Type B fuses cannot be installed in the underhood fuse boxes. Only use type A fuses in the underhood fuse boxes.



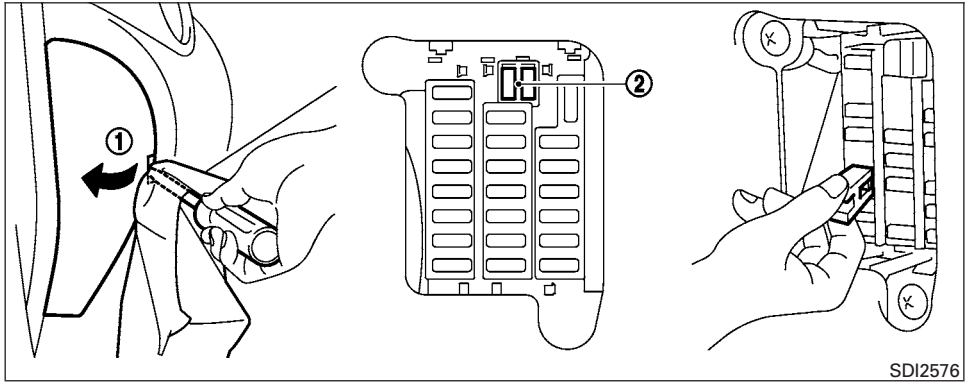
ENGINE COMPARTMENT

Fusible links

If any electrical equipment does not operate and the fuses are in good condition, check the fusible links① in the holder. If any of the fusible links are melted, replace only with genuine NISSAN parts.

For checking and replacing the fusible links in, see a NISSAN dealer.

Information Provided by:
DEALER E-PROCESS



PASSENGER COMPARTMENT

⚠ CAUTION

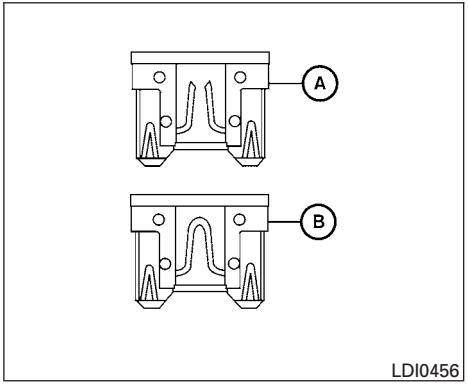
Never use a fuse of a higher or lower amperage rating than specified on the fuse box cover. This could damage the electrical system or cause a fire.

If any electrical equipment does not operate, check for an open fuse.

NOTE:

The fuse box is located on the driver's side of the instrument panel.

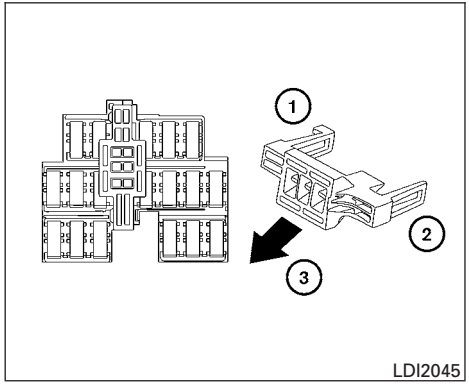
1. Be sure the ignition switch and the headlight switch are OFF.
2. Remove the fuse box cover ① with a suitable tool. Use a cloth to avoid damaging the trim.
3. Locate the fuse that needs to be replaced.
4. Remove the fuse with the fuse puller ②.



5. If the fuse is open Ⓐ, replace it with an equivalent good fuse Ⓑ.
6. Push the fuse box cover to install.

If a new fuse also opens, have the electrical system checked and repaired by a NISSAN dealer.

Information Provided by:
DEALER E-PROCESS



Extended storage switch

If any electrical equipment does not operate, remove the extended storage switch and check for an open fuse.

NOTE:

The extended storage switch is used for long term vehicle storage. Even if the extended storage switch is broken it is not necessary to replace it. Replace only the open fuse in the switch with a new fuse.

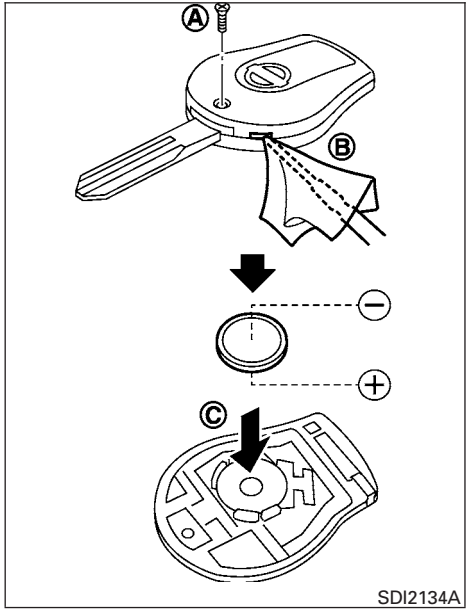
How to replace the extended storage switch:

1. To remove the extended storage switch, be sure the ignition switch is in the OFF or LOCK position.
2. Be sure the headlight switch is in the OFF position.
3. Remove the fuse box cover.
4. Pinch the locking tabs ① found on each side of the storage switch.
5. Pull the storage switch straight out from the fuse box ②.

⚠CAUTION

Be careful not to allow children to swallow the battery or removed parts.

Information Provided by:
DEALER E-PROCESS



KEYFOB (if so equipped)

Replace the battery in the keyfob as follows:

1. Remove the screw Ⓐ.
2. Insert a small screwdriver into the slit of the corner Ⓑ and twist it to separate the upper part from the lower part. Use a cloth to protect the casing.
3. Replace the battery with a new one.
   - Do not touch the internal circuit and electric terminals as doing so could cause a malfunction.
   - Make sure that the + side faces the bottom of the case Ⓒ.

Recommended battery: CR1620 or equivalent.

4. Close the lid and install the screw securely.
5. Operate the buttons to check its operation.

See a NISSAN dealer if you need assistance for replacement.

If the battery is removed for any reason other than replacement, perform step 5.

- **An improperly disposed battery can hurt the environment. Always confirm local regulations for battery disposal.**
- **The keyfob is water-resistant; however, if it does get wet, immediately wipe completely dry.**
- **The operational range of the keyfob extends to approximately 10 m (33 ft) from the vehicle. This range may vary with conditions.**

Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation of the device.

NISSAN INTELLIGENT KEY® (if so equipped)

Replace the battery in the Intelligent Key as follows:

1. Remove the mechanical key from the Intelligent Key.
2. Insert a small screwdriver Ⓐ into the slit Ⓑ of the corner and twist it to separate the upper part from the lower part. Use a cloth to protect the casing.
3. Replace the battery with a new one.

   Recommended battery: CR2025 or equivalent.

   - Do not touch the internal circuit and electric terminals as doing so could cause a malfunction.

Information Provided by:
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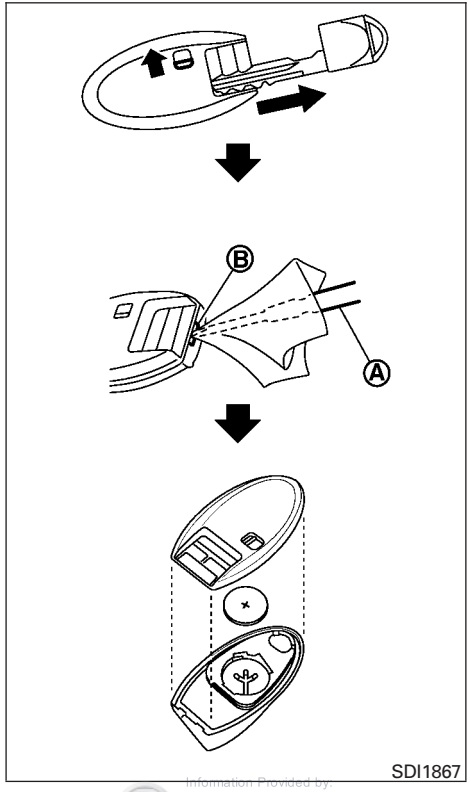
- Hold the battery by the edges. Holding the battery across the contact points will seriously deplete the storage capacity.
- Make sure that the + side faces the bottom of the case.



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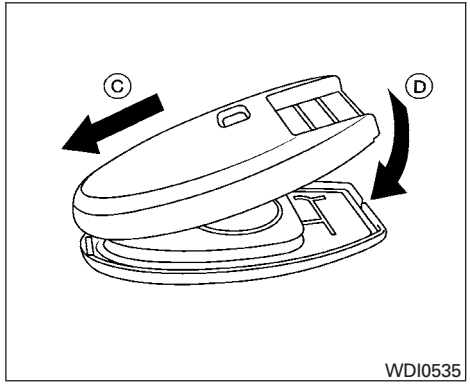

WDI0535

4. Close the lid securely as illustrated Ⓒ Ⓓ.
5. Operate the buttons to check the operation.

See a NISSAN dealer if you need assistance for replacement.

FCC Notice:

For USA:
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Note: Changes

Information Provided by:
DEALER E-PROCESS

or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For Canada:
This device complies with RSS-210 of Industry Canada. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

HEADLIGHTS

Replacing the halogen headlight bulb

The headlight is a semi-sealed beam type which uses a replaceable headlight (halogen) bulb. They can be replaced from inside the engine compartment without removing the headlight assembly.

⚠CAUTION

- **High-pressure halogen gas is sealed inside the bulb. The bulb may break if the glass envelope is scratched or the bulb is dropped.**
- **Aiming should not be necessary after replacing the H4 bulb. When aiming adjustment is necessary, contact a NISSAN dealer.**
- **Do not leave the headlight assembly open without a bulb installed for a long period of time. Dust, moisture, smoke, etc. entering the headlight body may affect bulb performance. Remove the bulb from the headlight assembly just before a replacement bulb is installed.**
- **Only touch the base when handling the bulb. Never touch the glass envelope. Touching the glass could significantly affect bulb life and/or headlight performance.**
- **Use the same number and wattage as shown in the chart.**

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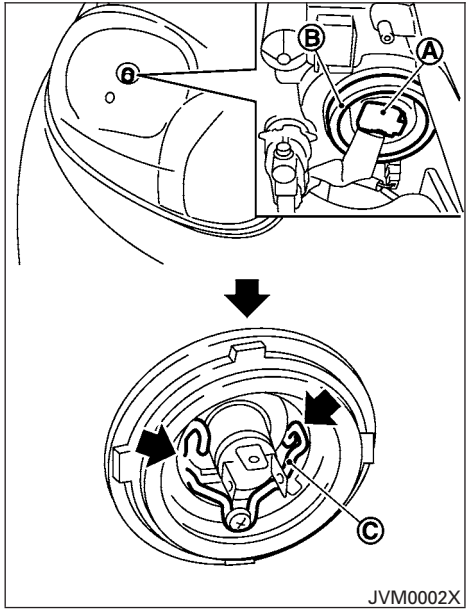


1. Disconnect the battery negative cable.
2. Disconnect the electrical connector Ⓐ from the rear end of the bulb.
3. Pull off the rubber cap Ⓑ.
4. Push and turn the retaining pin Ⓒ to loosen it.
5. Remove the headlight bulb. Do not shake or rotate the bulb when removing it.
6. Install the new bulb in the reverse order of removal.

Fog may temporarily form inside the lens of the exterior lights in the rain or in a car wash. A temperature difference between the inside and the outside of the lens causes the fog. This is not a malfunction. If large drops of water collect inside the lens, contact a NISSAN dealer.

Information Provided by:
DEALER E-PROCESS

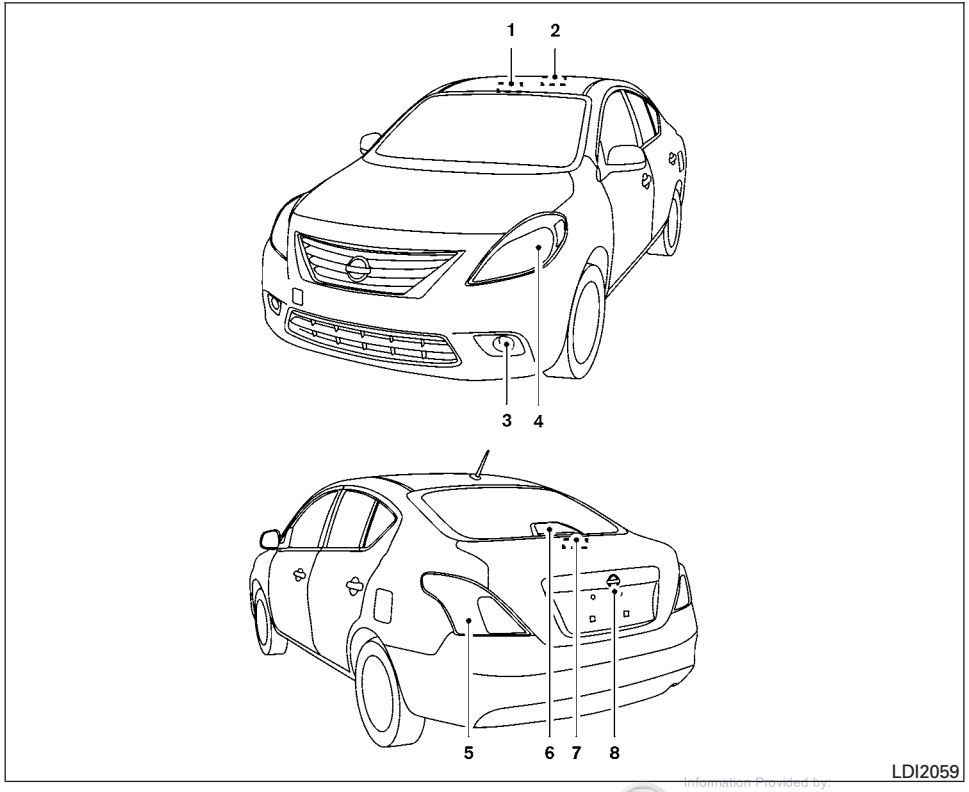
EXTERIOR AND INTERIOR LIGHTS

Item	Wattage (W)	Bulb No.*1
Headlight assembly*2		
High/low (Halogen)	60/55	H4
Turn	21	7507 (PY21W)
Front clearance light	5	W5W
Fog light (if so equipped)	55	H11
Room light	8	A L54
Map light	5	
Glove box light*2 (if so equipped)	3.4	—
Luggage compartment light (if so equipped)	5	—
High-mounted stop light*2	16	W16W
Rear combination light*2		
Turn signal light	21	7507 LF (PY21W)
Stop/Tail	21/5	P21/5W
Backup (reversing)	21	7506 (P21W)
License plate light*2	5	W5W (T10) 2J6

*1 Always check with the Parts Department at a NISSAN dealer for the latest parts information.

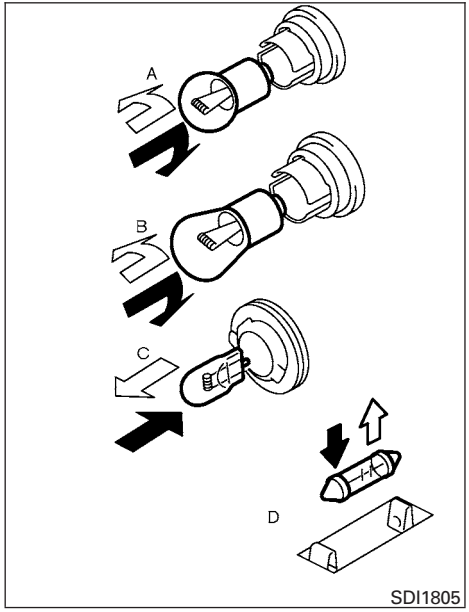
*2 If replacement is required contact a NISSAN dealer.

Information Provided by:
DEALER E-PROCESS



1. Map lights (if so equipped)
2. Interior light
3. Fog light (if so equipped)
4. Headlight assembly
5. Stop/tail light
6. High-mounted stop light
7. Trunk light (if so equipped)
8. License plate light

Information Provided by:
DEALER E-PROCESS

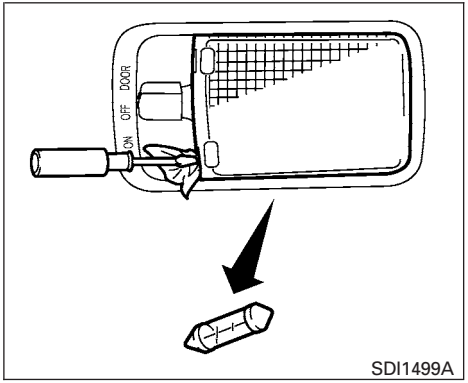


Indicates bulb removal

Indicates bulb installation

Replacement procedures

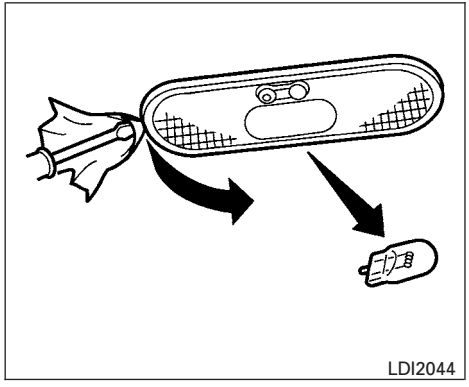
All other lights are either type A, B, C or D. When replacing a bulb, first remove the lens, lamp and/or cover.



Interior light

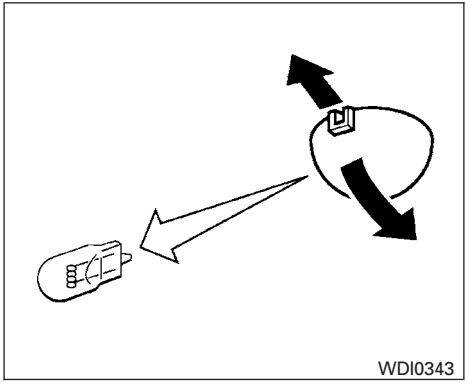
Use a cloth to protect the housing.

Information Provided by:
DEALER E-PROCESS

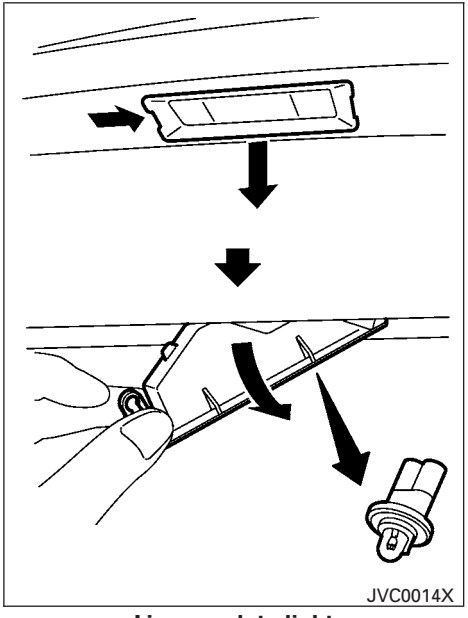


Map lights

Use a cloth to protect the housing.



Trunk light

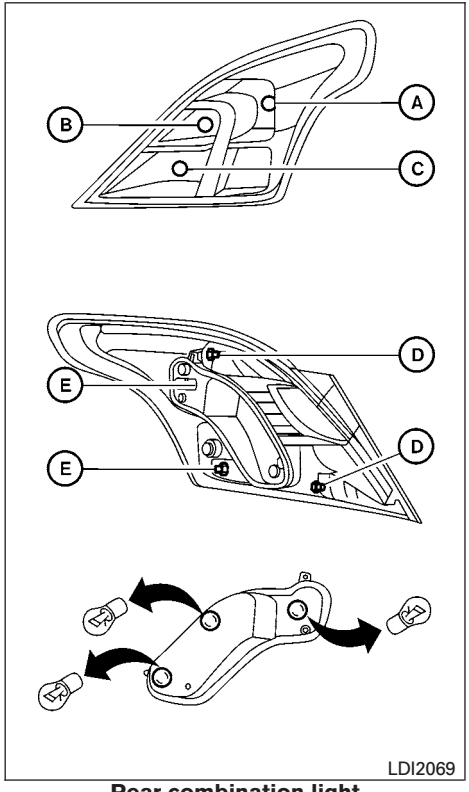


License plate light

To change the stop/tail Ⓐ, rear turn signal Ⓑ or backup (reversing) Ⓒ light bulb, perform the following:

1. Disconnect the battery negative cable.

Information Provided by:
DEALER E-PROCESS



Rear combination light

2. Remove the two bolts Ⓓ and then the two screws Ⓔ so that the housing containing the bulbs can be removed.
3. Remove the bulb(s) and replace as necessary.
4. Return the housing to the rear combination light and secure with the bolts Ⓓ and screws Ⓔ.

If you have a flat tire, see “Flat tire” in the “In case of emergency” section of this manual.

TIRE PRESSURE

Tire Pressure Monitoring System (TPMS) (if so equipped)

This vehicle is equipped with the Tire Pressure Monitoring System (TPMS). It monitors tire pressure of all tires except the spare. When the low tire pressure warning light is lit, and the CHECK TIRE PRES (pressure) warning message displays in the odometer, one or more of your tires is significantly under-inflated.

The TPMS will activate only when the vehicle is driven at speeds above 16 MPH (25 km/h). Also, this system may not detect a sudden drop in tire pressure (for example a flat tire while driving).

For more details, refer to “Low tire pressure warning light” in the “Instruments and controls” section, “Tire Pressure Monitoring System (TPMS)” in the “Starting and driving” section, and “Flat tire” in the “In case of emergency” section.

Information Provided by:
DEALER E-PROCESS

Tire inflation pressure

Check the tire pressures (including the spare) often and always prior to long distance trips. The recommended tire pressure specifications are shown on the F.M.V.S.S./C.M.V.S.S. certification label or the Tire and Loading Information label under the “Cold Tire Pressure” heading. The Tire and Loading Information label is affixed to the driver side center pillar. Tire pressures should be checked regularly because:

- Most tires naturally lose air over time.
- Tires can lose air suddenly when driven over potholes or other objects or if the vehicle strikes a curb while parking.

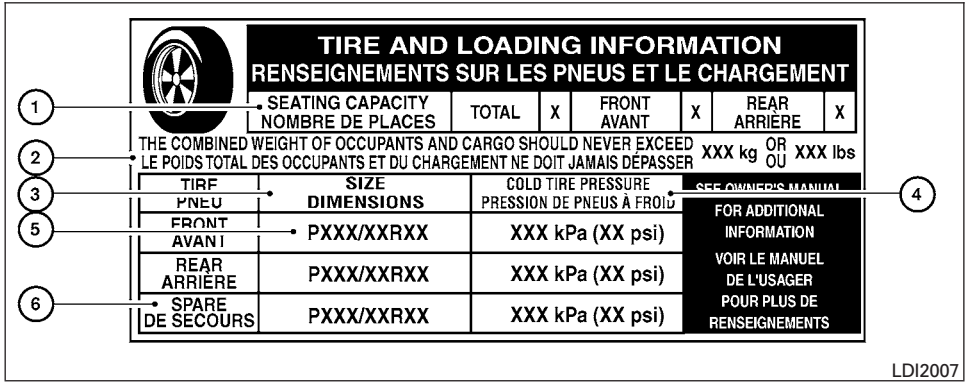
The tire pressures should be checked when the tires are cold. The tires are considered COLD after the vehicle has been parked for 3 or more hours, or driven less than 1 mile (1.6 km) at moderate speeds.

Incorrect tire pressure, including under inflation, may adversely affect tire life and vehicle handling.

⚠WARNING

- **Improperly inflated tires can fail suddenly and cause an accident.**
- **The Gross Vehicle Weight Rating (GVWR) is located on the F.M.V.S.S./C.M.V.S.S. certification label. The vehicle weight capacity is indicated on the Tire and Loading Information label. Do not load your vehicle beyond this capacity. Overloading your vehicle may result in reduced tire life, unsafe operating conditions due to premature tire failure, or unfavorable handling characteristics and could also lead to a serious accident. Loading beyond the specified capacity may also result in failure of other vehicle components.**
- **Before taking a long trip, or whenever you heavily load your vehicle, use a tire pressure gauge to ensure that the tire pressures are at the specified level.**
- **For additional information regarding tires, refer to “Important Tire Safety Information” (US) or “Tire Safety Information” (Canada) in the Warranty Information Booklet.**

Information Provided by:
DEALER E-PROCESS



Tire and loading information label

① Seating capacity: The maximum number of occupants that can be seated in the vehicle.

② Vehicle load limit: See “Vehicle loading information” in the “Technical and consumer information” section.

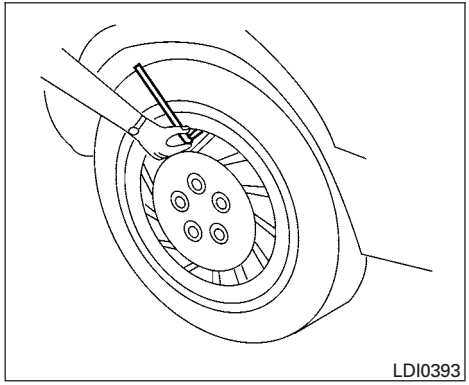
③ Tire size – refer to “Tire labeling” later in this section.

④ Cold tire pressure: Inflate the tires to this pressure when the tires are cold. Tires are considered COLD after the vehicle has been parked for 3 or more hours, or driven less than 1 mile (1.6 km) at moderate speeds. The recommended cold tire inflation is set by the manufacturer to provide the best balance of tire wear, vehicle handling, driveability, tire noise, etc., up to the vehicle’s GVWR.

⑤ Spare tire size.

⑥ Original tire size: The size of the tires originally installed on the vehicle at the factory.

Information Provided by:
DEALER E-PROCESS



Checking tire pressure

1. Remove the valve stem cap from the tire.
2. Press the pressure gauge squarely onto the valve stem. Do not press too hard or force the valve stem sideways, or air will escape. If the hissing sound of air escaping from the tire is heard while checking the pressure, reposition the gauge to eliminate this leakage.
3. Remove the gauge.
4. Read the tire pressure on the gauge stem and compare to the specification shown on the Tire and Loading Information label.
5. Add air to the tire as needed. If too much air is added, press the core of the valve stem briefly with the tip of the gauge stem to release pressure. Recheck the pressure and add or release air as needed.
6. Install the valve stem cap.
7. Check the pressure of all other tires, including the spare.

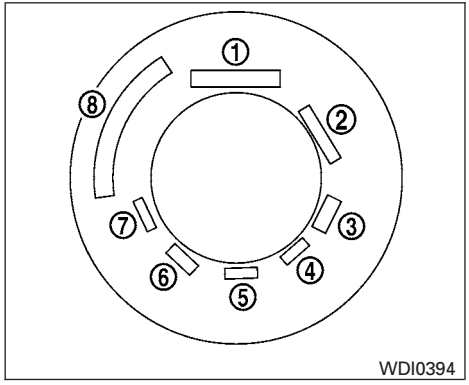
For CVT transmission system:

Size	Cold Tire Inflation Pressure
Front Original Tire: P185/65R15	250 kPa, 36 PSI
Rear Original Tire: P185/65R15	250 kPa, 36 PSI
T125/70D15	420 kPa, 60 PSI

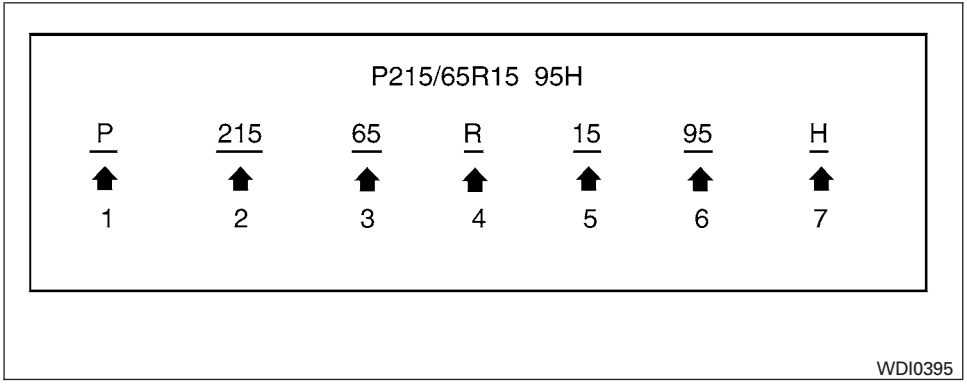
For 4AT and 5MT transmission systems:

Size	Cold Tire Inflation Pressure
Front Original Tire: P185/65R15	230 kPa, 33 PSI
Rear Original Tire: P185/65R15	230 kPa, 33 PSI
T125/70D15	420 kPa, 60 PSI

Information Provided by:
DEALER E-PROCESS



Example



Example

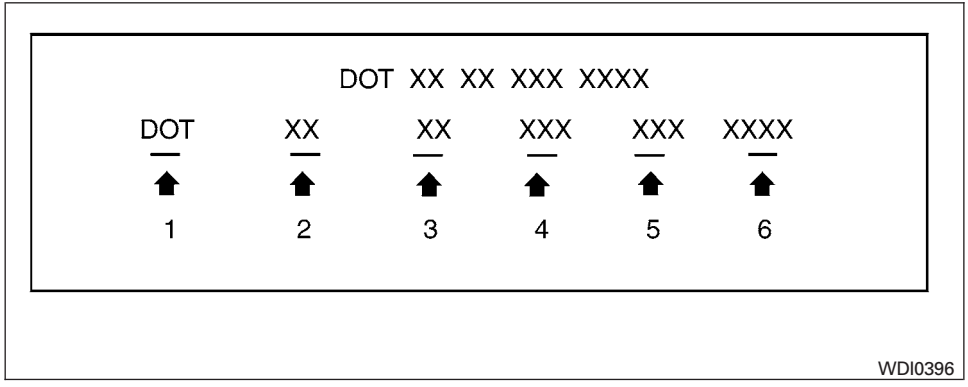
TIRE LABELING

Federal law requires tire manufacturers to place standardized information on the sidewall of all tires. This information identifies and describes the fundamental characteristics of the tire and also provides the tire identification number (TIN) for safety standard certification. The TIN can be used to identify the tire in case of a recall.

① Tire size (example: P215/65R15 95H)

1. P: The “P” indicates the tire is designed for passenger vehicles (not all tires have this information).
2. Three-digit number (215): This number gives the width in millimeters of the tire from sidewall edge to sidewall edge.
3. Two-digit number (65): This number, known as the aspect ratio, gives the tire’s ratio of height to width.
4. R: The “R” stands for radial.
5. Two-digit number (15): This number is the wheel or rim diameter in inches.
6. Two- or three-digit number (95): This number is the tire’s load index. It is a measurement of how much weight each tire can support. You may not find this information on all tires because it is not required by law.
7. H: Tire speed rating. You should not drive the vehicle faster than the tire speed rating.

DEALER E-PROCESS



Example

② TIN (Tire Identification Number) for a new tire (example: DOT XX XX XXX XXXX)

1. DOT: Abbreviation for the “Department Of Transportation”. The symbol can be placed above, below or to the left or right of the Tire Identification Number.
2. Two-digit code: Manufacturer’s identification mark.
3. Two-digit code: Tire size.
4. Three-digit code: Tire type code (Optional).
5. Three-digit code: Date of Manufacture.
6. Four numbers represent the week and year the tire was built. For example, the numbers 3103 means the 31st week of 2003. If these numbers are missing, then look on the other sidewall of the tire.

③ Tire ply composition and material

The number of layers or plies of rubber-coated fabric in the tire. Tire manufacturers also must indicate the materials in the tire, which include steel, nylon, polyester, and others.

④ Maximum permissible inflation pressure

This number is the greatest amount of air pressure that should be put in the tire. Do not exceed the maximum permissible inflation pressure.

⑤ Maximum load rating

This number indicates the maximum load in kilograms and pounds that can be carried by the tire. When replacing the tires on the vehicle, always use a tire that has the same load rating as the factory installed tire.

⑥ Term of “tubeless” or “tube type”

Indicates whether the tire requires an inner tube (“tube type”) or not (“tubeless”).

Information Provided by:
DEALER E-PROCESS

⑦ The word “radial”

The word “radial” is shown if the tire has radial structure.

⑧ Manufacturer or brand name

Manufacturer or brand name is shown.

Other Tire-related Terminology

In addition to the many terms that are defined throughout this section, Intended Outboard Sidewall is (1) the sidewall that contains a whitewall, bears white lettering or bears manufacturer, brand, and/or model name molding that is higher or deeper than the same molding on the other sidewall of the tire, or (2) the outward facing sidewall of an asymmetrical tire that has a particular side that must always face outward when mounted on a vehicle.

TYPES OF TIRES

⚠WARNING

- **When changing or replacing tires, be sure all four tires are of the same type (i.e., Summer, All Season or Snow) and construction. A NISSAN dealer may be able to help you with information about tire type, size, speed rating and availability.**
- **Replacement tires may have a lower speed rating than the factory equipped tires, and may not match the potential maximum vehicle speed. Never exceed the maximum speed rating of the tire.**
- **For additional information regarding tires, refer to “Important Tire Safety Information” (US) or “Tire Safety Information” (Canada) in the Warranty Information Booklet.**

All season tires

NISSAN specifies All Season tires on some models to provide good performance all year, including snowy and icy road conditions. All Season tires are identified by ALL SEASON and/or M&S on the tire sidewall. Snow tires have better snow traction than All Season tires and may be more appropriate in some areas.

Summer tires

NISSAN specifies summer tires on some models to provide superior performance on dry roads. Summer tire performance is substantially reduced in snow and ice. Summer tires do not have the tire traction rating “M&S” on the tire sidewall.

If you plan to operate your vehicle in snowy or icy conditions, NISSAN recommends the use of SNOW tires or ALL SEASON tires on all four wheels.

Snow tires

If snow tires are needed, it is necessary to select tires equivalent in size and load rating to the original equipment tires. If you do not, it can adversely affect the safety and handling of your vehicle.

Generally, snow tires have lower speed ratings than factory equipped tires and may not match the potential maximum vehicle speed. Never exceed the maximum speed rating of the tire.

If you install snow tires, they must be the same size, brand, construction and tread pattern on all four wheels.

Provided by: DEALER E-PROCESS

For additional traction on icy roads, studded tires may be used. However, some U.S. states and Canadian provinces prohibit their use. Check local, state and provincial laws before installing studded tires. Skid and traction capabilities of studded snow tires on wet or dry surfaces may be poorer than that of non-studded snow tires.

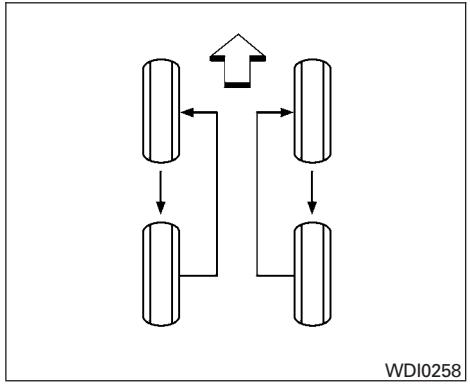
TIRE CHAINS

Use of tire chains may be prohibited according to location. Check the local laws before installing tire chains. When installing tire chains, make sure they are the proper size for the tires on your vehicle and are installed according to the chain manufacturer's suggestions. **Use only SAE class "S" chains.** Class "S" chains are used on vehicles with restricted tire to vehicle clearance. Vehicles that can use Class "S" chains are designed to meet the minimum clearances between the tire and the closest vehicle suspension or body component required to accommodate the use of a winter traction device (tire chains or cables). The minimum clearances are determined using the factory equipped tires. Other types may damage your vehicle. Use chain tensioners when recommended by the tire chain manufacturer to ensure a tight fit. Loose end links of the tire chain must be secured or removed to prevent the possibility of whipping action damage to the fenders or underbody. If possible, avoid fully loading your vehicle when using tire chains. In addition, drive at a reduced speed. Otherwise, your vehicle may be damaged and/or vehicle handling and performance may be adversely affected.

Tire chains must be installed only on the front wheels and not on the rear wheels.

Never install tire chains on a TEMPORARY USE ONLY spare tire.

Do not use tire chains on dry roads. Driving with chains in such conditions can cause damage to the various mechanisms of the vehicle due to some overstress.



CHANGING WHEELS AND TIRES

Tire rotation

NISSAN recommends rotating the tires every 7,500 miles (12,000 km).

See "Flat tire" in the "In case of emergency" section of this manual for tire replacing procedures.

As soon as possible, tighten the wheel nuts to the specified torque with a torque wrench.

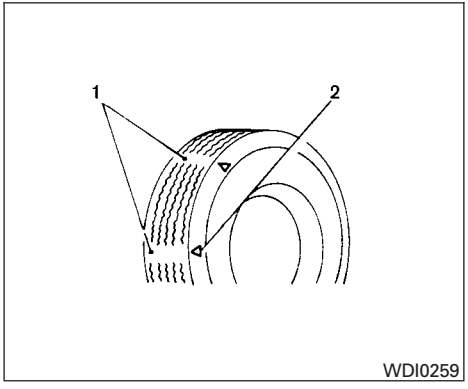
Information Provided by:
DEALER E-PROCESS

Wheel nut tightening torque:
83 ft-lb (113 N·m)

The wheel nuts must be kept tightened to specifications at all times. It is recommended that wheel nuts be tightened to specification at each tire rotation interval.

⚠WARNING

- **After rotating the tires, check and adjust the tire pressure.**
- **Retighten the wheel nuts when the vehicle has been driven for 600 miles (1,000 km) (also in cases of a flat tire, etc.).**
- **Do not include the spare tire in the tire rotation.**
- **For additional information regarding tires, refer to "Important Tire Safety Information" (US) or "Tire Safety Information" (Canada) in the Warranty Information Booklet.**



1. Wear indicator
2. Location mark

Tire wear and damage

⚠WARNING

- **Tires should be periodically inspected for wear, cracking, bulging or objects caught in the tread. If excessive wear, cracks, bulging or deep cuts are found, the tire(s) should be replaced.**
- **The original tires have built-in tread wear indicators. When the wear indicators are visible, the tire(s) should be replaced.**
- **Tires degrade with age and use. Have tires, including the spare, over 6 years old checked by a qualified technician because some tire damage may not be obvious. Replace the tires as necessary to prevent tire failure and possible personal injury.**
- **Improper service of the spare tire may result in serious personal injury. If it is necessary to repair the spare tire, contact a NISSAN dealer.**
- **For additional information regarding tires, refer to "Important Tire Safety Information" (US) or "Tire Safety Information" (Canada) in the Warranty Information Booklet.**

Information Provided by:
DEALER E-PROCESS

Replacing wheels and tires

When replacing a tire, use the same size, tread design, speed rating and load carrying capacity as originally equipped. Recommended types and sizes are shown in “Wheels and tires” in the “Technical and consumer information” section of this manual.

⚠ WARNING

- **The use of tires other than those recommended or the mixed use of tires of different brands, construction (bias, bias-belted or radial), or tread patterns can adversely affect the ride, braking, handling, VDC system, ground clearance, body-to-tire clearance, tire chain clearance, speedometer calibration, headlight aim and bumper height. Some of these effects may lead to accidents and could result in serious personal injury.**
- **If your vehicle was originally equipped with 4 tires that were the same size and you are only replacing 2 of the 4 tires, install the new tires on the rear axle. Placing new tires on the front axle may cause loss of vehicle control in some driving conditions and cause an accident and personal injury.**
- **If the wheels are changed for any reason, always replace with wheels which have the same off-set dimension. Wheels of a different off-set could cause premature tire wear, degrade vehicle handling characteristics, affect the VDC system and/or interference with the brake discs/drums. Such interference can lead to decreased braking efficiency and/or early brake pad/shoe wear. Refer to “Wheels and tires” in the “Technical and consumer information” section of this manual for wheel off-set dimensions.**
- **When a spare tire is mounted or a wheel is replaced, the TPMS will not function and the low tire pressure warning light will flash for approximately 1 minute. The light will remain on after 1 minute. Contact your NISSAN dealer as soon as possible for tire replacement and/or system resetting.**
- **Replacing tires with those not originally specified by NISSAN could affect the proper operation of the TPMS.**
- **Do not install a damaged or deformed wheel or tire even if it has been repaired. Such wheels or tires could have structural damage and could fail without warning.**
- **The use of retread tires is not recommended.**
- **For additional information regarding tires, refer to “Important Tire Safety Information” (US) or “Tire Safety Information” (Canada) in the Warranty Information Booklet.**

Wheel balance

Unbalanced wheels may affect vehicle handling and tire life. Even with regular use, wheels can get out of balance. Therefore, they should be balanced as required.

Wheel balance service should be performed with the wheels off the vehicle. Spin balancing the wheels on the vehicle could lead to mechanical damage.

- **For additional information regarding tires, refer to “Important Tire Safety Information” (US) or “Tire Safety Information” (Canada) in the Warranty Information Booklet.**

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Care of wheels

- Wash the wheels when washing the vehicle to maintain their appearance.
- Clean the inner side of the wheels when the wheel is changed or the underside of the vehicle is washed.
- Do not use abrasive cleaners when washing the wheels.
- Inspect wheel rims regularly for dents or corrosion. Such damage may cause loss of pressure or poor seal at the tire bead.
- NISSAN recommends waxing the road wheels to protect against road salt in areas where it is used during winter.

Spare tire (TEMPORARY USE ONLY spare tire)

Observe the following precautions if the TEMPORARY USE ONLY spare tire must be used. Otherwise, your vehicle could be damaged or involved in an accident:

⚠ WARNING

- **The spare tire should be used for emergency use only. It should be replaced with the standard tire at the first opportunity to avoid possible tire or differential damage.**
- **Drive carefully while the TEMPORARY USE ONLY spare tire is installed. Avoid sharp turns and abrupt braking while driving.**
- **Periodically check spare tire inflation pressure. Always keep the pressure of the TEMPORARY USE ONLY spare tire at 60 psi (420 kPa, 4.2 bar).**
- **With the TEMPORARY USE ONLY spare tire installed do not drive the vehicle at speeds faster than 50 MPH (80 km/h).**
- **When driving on roads covered with snow or ice, the TEMPORARY USE ONLY spare tire should be used on the rear wheels and the original tire used on the front wheels (drive wheels). Use tire chains only on the front (original) tires.**
- **Tire tread of the TEMPORARY USE ONLY spare tire will wear at a faster rate than the standard tire. Replace the spare tire as soon as the tread wear indicators appear.**
- **Do not use the spare tire on other vehicles.**
- **Do not use more than one spare tire at the same time.**
- **Do not tow a trailer when the TEMPORARY USE ONLY spare tire is installed.**

⚠ CAUTION

- **Do not use tire chains on a TEMPORARY USE ONLY spare tire. Tire chains will not fit properly and may cause damage to the vehicle.**
- **Because the TEMPORARY USE ONLY spare tire is smaller than the original tire, ground clearance is reduced. To avoid damage to the vehicle, do not drive over obstacles. Also, do not drive the vehicle through an automatic car wash since it may get caught.**

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9 Technical and consumer information

Capacities and recommended fuel/lubricants 9-2
Fuel recommendation 9-3
Engine oil and oil filter recommendations 9-5
Air conditioner system (if so equipped) refrigerant and oil recommendations 9-6
Specifications 9-7
Engine 9-7
Wheels and tires 9-8
Dimensions and weights 9-8
When traveling or registering your vehicle in another country 9-9
Vehicle identification 9-9
Vehicle identification number (VIN) plate 9-9
Vehicle identification number (chassis number) 9-9
Engine serial number. 9-10
F.M.V.S.S./C.M.V.S.S. certification label 9-10
Emission control information label 9-10
Tire and loading information label. 9-11
Air conditioner specification label (if so equipped) 9-11
Installing front license plate 9-11
Vehicle loading information 9-12
Terms 9-12
Determining vehicle load capacity 9-13
Loading tips 9-15
Measurement of weights 9-15
Towing a trailer 9-16
Flat towing. 9-16
Uniform tire quality grading 9-16
Emission control system warranty 9-17
Reporting safety defects 9-18
Readiness for inspection/maintenance (I/M) test 9-19
Event Data Recorders (EDR). 9-19
Owner's Manual/Service Manual order information . . . 9-20

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CAPACITIES AND RECOMMENDED FUEL/LUBRICANTS

The following are approximate capacities. The actual refill capacities may be slightly different. When refilling, follow the procedure described in the "Maintenance and do-it-yourself" section to determine the proper refill capacity.

	Capacity (Approximate)			
	U.S. measure	Imp. measure	Liter	Recommended Fluids and Lubricants
Fuel	10-7/8 gal	9 gal	41	See "Fuel recommendation" later in this section.
Engine oil (drain and refill) *5				
With oil filter change	3-3/4 qt	3-1/8 qt	3.5	▪ Engine oil with API Certification Mark*1 ▪ Viscosity SAE 5W-30 *1
Without oil filter change	3-3/8 qt	2-7/8 qt	3.2	
Cooling system (with reservoir)				
M/T	1-5/8 gal	1-3/8 gal	6.3	Pre-diluted Genuine NISSAN Long Life Antifreeze/Coolant (blue) or equivalent
CVT/ A/T	1-7/8 gal	1-5/8 gal	7.2	
Manual transmission gear oil	—	—	—	Genuine NISSAN Manual Transmission Fluid (MTF) HQ Multi 75W-85, or equivalent *2
Continuously Variable Transmission (CVT) fluid	Refill to the proper level according to the instructions in the "Maintenance and do-it-yourself" section. *6			Genuine NISSAN CVT Fluid NS-3*3
Brake and clutch (if so equipped) fluid				Genuine NISSAN Super Heavy Duty Brake Fluid*7 or equivalent DOT 3.
Multi-purpose grease	—	—	—	NLGI No. 2 (Lithium soap base)
Air conditioning system refrigerant (if so equipped)	—	—	—	HFC-134a (R-134a) *4
Air conditioning system oil (if so equipped)	—	—	—	Genuine NISSAN A/C System Oil Type R or equivalent *4
Windshield-washer fluid	3/4 gal	7/8 gal	3.5	Genuine NISSAN Windshield Washer Concentrate Cleaner & Antifreeze or equivalent

*1: For further details, see "Engine oil and oil filter recommendations" in this section.
*2: If Genuine NISSAN Manual Transmission Fluid HQ-Multi is not available, API GL-4, Viscosity SAE 75W-85 may be used as a temporary replacement. However, use Genuine NISSAN Manual Transmission Fluid HQ-Multi as soon as it is available.
*3: Use only Genuine NISSAN CVT Fluid NS-3. Using transmission fluid other than Genuine NISSAN CVT Fluid NS-3 will damage the CVT, which is not covered by the NISSAN new vehicle limited warranty.
*4: For further details, see "Air conditioner system (if so equipped) refrigerant and oil recommendations" in this section.
*5: For further details, see "Engine oil" in the "Maintenance and do-it-yourself" section of this manual.
*6: See your NISSAN dealer or qualified workshop for service.
*7: Available in mainland U.S.A. through a NISSAN dealer.

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FUEL RECOMMENDATION

Use unleaded regular gasoline with an octane rating of at least 87 AKI (Anti-Knock Index) number (Research octane number 91).

⚠ CAUTION

- **Only vehicles with the E-85 filler door label can operate on E-85. Fuel system or other damage can occur if E-85 is used in vehicles that are not designed to run on E-85.**
- **Using a fuel other than that specified could adversely affect the emission control system, and may also affect the warranty coverage.**
- **Under no circumstances should a leaded gasoline be used, because this will damage the three-way catalyst.**
- **Do not use E-15 or E-85 fuel in your vehicle. Your vehicle is not designed to run on E-15 or E-85 fuel. Using E-15 or E-85 fuel in a vehicle not specifically designed for E-15 or E-85 fuel can adversely affect the emission control devices and systems of the vehicle. Damage caused by such fuel is not covered by the NISSAN new vehicle limited warranty.**
- **U.S. government regulations require ethanol dispensing pumps to be identified by a small, square, orange and black label with the common abbreviation or the appropriate percentage for that region.**

Gasoline specifications

NISSAN recommends using gasoline that meets the World-Wide Fuel Charter (WWFC) specifications where it is available. Many of the automobile manufacturers developed this specification to improve emission control system and vehicle performance. Ask your service station manager if the gasoline meets the WWFC specifications.

Reformulated gasoline

Some fuel suppliers are now producing reformulated gasolines. These gasolines are specially designed to reduce vehicle emissions. NISSAN supports efforts towards cleaner air and suggests that you use reformulated gasoline when available.

Gasoline containing oxygenates

Some fuel suppliers sell gasoline containing oxygenates such as ethanol, MTBE and methanol with or without advertising their presence. NISSAN does not recommend the use of fuels of which the oxygenate content and the fuel compatibility for your NISSAN cannot be readily determined. If in doubt, ask your service station manager.

If you use oxygenate-blend gasoline, please take the following precautions as the usage of such fuels may cause vehicle performance problems and/or fuel system damage.

- **The fuel should be unleaded and have an octane rating no lower than that recommended for unleaded gasoline.**
- **If an oxygenate-blend other than methanol blend is used, it should contain no more than 10% oxygenate. (MTBE may, however, be added up to 15%.)**
- **E-15 fuel contains more than 10% oxygenate. E-15 fuel will adversely affect the emission control devices and systems of the vehicle and should not be used. Damage caused by such fuel is not covered by the NISSAN new vehicle limited warranty.**

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- **If a methanol blend is used, it should contain no more than 5% methanol (methyl alcohol, wood alcohol). It should also contain a suitable amount of appropriate cosolvents and corrosion inhibitors. If not properly formulated with appropriate cosolvents and corrosion inhibitors, such methanol blends may cause fuel system damage and/or vehicle performance problems. At this time, sufficient data is not available to ensure that all methanol blends are suitable for use in NISSAN vehicles.**

If any driveability problems such as engine stalling and difficult hot-starting are experienced after using oxygenate-blend fuels, immediately change to a non-oxygenate fuel or a fuel with a low blend of MTBE.

Take care not to spill gasoline during refueling. Gasoline containing oxygenates can cause paint damage.

E–15 fuel

E-15 fuel is a mixture of approximately 15% fuel ethanol and 85% unleaded gasoline. E-15 can only be used in vehicles designed to run on E-15 fuel. Do not use E-15 in your vehicle. U.S. government regulations require fuel ethanol dispensing pumps to be identified with small, square, orange and black label with the common abbreviation or the appropriate percentage for that region.

E–85 fuel

E-85 fuel is a mixture of approximately 85% fuel ethanol and 15% unleaded gasoline. E-85 can only be used in a Flexible Fuel Vehicle (FFV). Do not use E-85 in your vehicle. U.S. government regulations require fuel ethanol dispensing pumps to be identified by a small, square, orange and black label with the common abbreviation or the appropriate percentage for that region.

Aftermarket fuel additives

NISSAN does not recommend the use of any aftermarket fuel additives (for example, fuel injector cleaner, octane booster, intake valve deposit removers, etc.) which are sold commercially. Many of these additives intended for gum, varnish or deposit removal may contain active solvents or similar ingredients that can be harmful to the fuel system and engine.

Octane rating tips

Using unleaded gasoline with an octane rating lower than recommended can cause persistent, heavy “spark knock.” (“Spark knock” is a metallic rapping noise.) If severe, this can lead to engine damage. If you detect a persistent heavy spark knock even when using gasoline of the stated octane rating, or if you hear steady spark knock while holding a steady speed on level roads, have a NISSAN dealer correct the condition. Failure to correct the condition is misuse of the vehicle, for which NISSAN is not responsible.

Incorrect ignition timing may result in spark knock, after-run and/or overheating, which may cause excessive fuel consumption or engine damage. If any of the above symptoms are encountered, have your vehicle checked at a NISSAN dealer.

However, now and then you may notice light spark knock for a short time while accelerating or driving up hills. This is not a cause for concern, because you get the greatest fuel benefit when there is light spark knock for a short time under heavy engine load.

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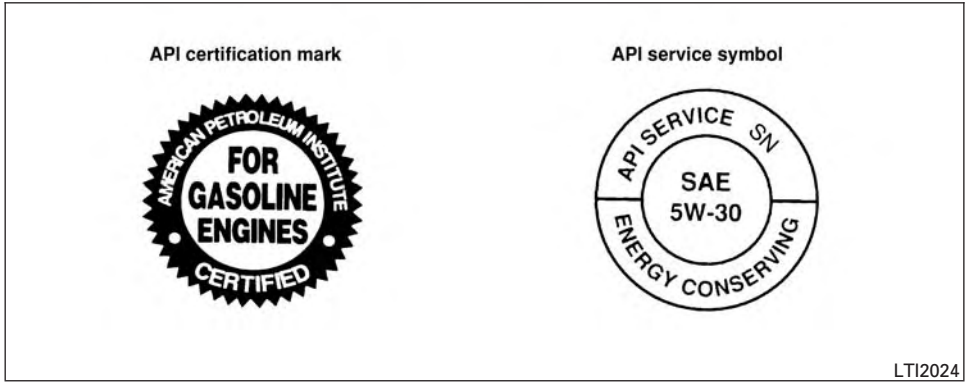

ENGINE OIL AND OIL FILTER RECOMMENDATIONS

Selecting the correct oil

It is essential to choose the correct grade, quality and viscosity engine oil to ensure satisfactory engine life and performance. See “Capacities and recommended fuel/lubricants” earlier in this section. NISSAN recommends the use of an energy conserving oil in order to improve fuel economy.

Select only engine oils that meet the American Petroleum Institute (API) certification or International Lubricant Standardization and Approval Committee (ILSAC) certification and SAE viscosity standard. These oils have the API certification mark on the front of the container. Oils which do not have the specified quality label should not be used as they could cause engine damage.

Oil additives

NISSAN does not recommend the use of oil additives. The use of an oil additive is not necessary when the proper oil type is used and maintenance intervals are followed.

Oil which may contain foreign matter or has been previously used should not be used.

Oil viscosity

The engine oil viscosity or thickness changes with temperature. Because of this, it is important to select the engine oil viscosity based on the temperatures at which the vehicle will be operated before the next oil change. Choosing an oil viscosity other than that recommended could cause serious engine damage.

Selecting the correct oil filter

Your new NISSAN vehicle is equipped with a high-quality genuine NISSAN oil filter. When replacing, use a genuine NISSAN oil filter or its equivalent for the reason described in “Change intervals.”

Change intervals

The oil and oil filter change intervals for your engine are based on the use of the specified quality oils and filters. Using engine oil and filters that are not of the specified quality, or exceeding recommended oil and filter change intervals could reduce engine life. Damage to the engine caused by improper maintenance or use of incorrect oil and filter quality and/or viscosity is not covered by the NISSAN new vehicle limited warranty.

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Your engine was filled with a high-quality engine oil when it was built. You do not have to change the oil before the first recommended change interval. Oil and filter change intervals depend upon how you use your vehicle.

Operation under the following conditions may require more frequent oil and filter changes:

- repeated short distance driving at cold outside temperatures
- driving in dusty conditions
- extensive idling
- stop and go commuting

Refer to the “NISSAN Service and Maintenance Guide” for the maintenance schedule.

AIR CONDITIONER SYSTEM (if so equipped) REFRIGERANT AND OIL RECOMMENDATIONS

The air conditioner system in your NISSAN vehicle must be charged with the refrigerant HFC-134a (R-134a) and the oil, NISSAN A/C system oil Type R or the exact equivalents.

⚠CAUTION

The use of any other refrigerant or oil will cause severe damage to the air conditioning system and will require the replacement of all air conditioner system components.

The refrigerant HFC-134a (R-134a) in your NISSAN vehicle does not harm the earth’s ozone layer. Although this refrigerant does not affect the earth’s atmosphere, certain government regulations require the recovery and recycling of any refrigerant during automotive air conditioner system service. A NISSAN dealer has the trained technicians and equipment needed to recover and recycle your air conditioner system refrigerant.

Contact a NISSAN dealer when servicing your air conditioner system.

Information Provided by:
DEALER E-PROCESS

SPECIFICATIONS

ENGINE

Model		HR16DE
Type		Gasoline, 4-cycle, DOHC
Cylinder arrangement		4-cylinder, inline
Bore x Stroke	in (mm)	3.071 x 3.291 (78.0 x 83.6)
Displacement	cu in (cm^3)	97.51 (1,598)
Firing order		1–3–4–2
Idle speed M/T CVT in “N” position Ignition timing (degree B.T.D.C. at idle speed) CO % at idle		No adjustment is necessary.
Spark plug		PLZKAR6A-11
Spark plug gap (Nominal)	in (mm)	0.043 (1.1)
Camshaft operation		Timing chain

NOTE:

This spark ignition system complies with the Canadian standard ICES-002.

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WHEELS AND TIRES

Wheel type	Size	Offset in (mm)
Aluminum and steel	15 x 5.5J	1.57 (40)
Tire size		P185/65R15
Spare tire		T125/70D15

DIMENSIONS AND WEIGHTS

Body Type		Unit: in (mm) Sedan
Overall length		175.7 (4,465)
Overall width		66.7 (1,695)
Overall height		59.6 (1,514)
Front Track		58.3 (1,480)
Rear Track		58.5 (1,485)
Wheelbase		102.4 (2,600)
Gross vehicle weight rating	lb (kg)	See the “F.M.V.S.S./C.M.V.S.S. certification label” on the center pillar between the driver’s side front and rear doors.
Gross axle weight rating		
Front	lb (kg)	
Rear	lb (kg)	

Information Provided by:
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WHEN TRAVELING OR REGISTERING YOUR VEHICLE IN ANOTHER COUNTRY

When planning to drive your NISSAN vehicle in another country, you should first find out if the fuel available is suitable for your vehicle's engine.

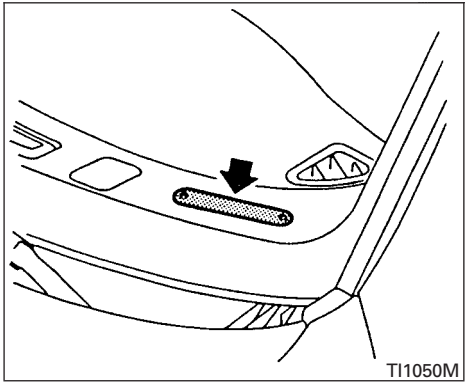
Using fuel with an octane rating that is too low may cause engine damage. All gasoline vehicles must be operated with unleaded gasoline. Therefore, avoid taking your vehicle to areas where appropriate fuel is not available.

When transferring the registration of your vehicle to another country, state, province or district, it may be necessary to modify the vehicle to meet local laws and regulations.

The laws and regulations for motor vehicle emission control and safety standards vary according to the country, state, province or district; therefore, vehicle specifications may differ.

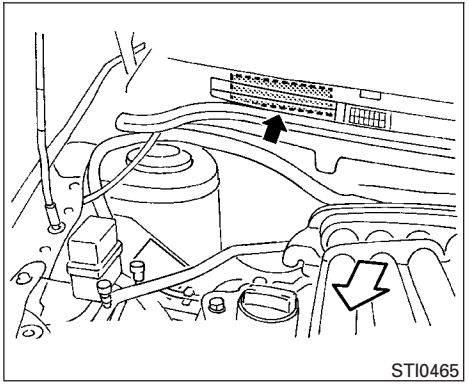
When any vehicle is to be taken into another country, state, province or district and registered, its modifications, transportation, and registration are the responsibility of the user. NISSAN is not responsible for any inconvenience that may result.

VEHICLE IDENTIFICATION



VEHICLE IDENTIFICATION NUMBER (VIN) PLATE

The vehicle identification number (VIN) plate is attached as shown. This number is the identification for your vehicle and is used in the vehicle registration.



VEHICLE IDENTIFICATION NUMBER (chassis number)

The vehicle identification number is located as shown.

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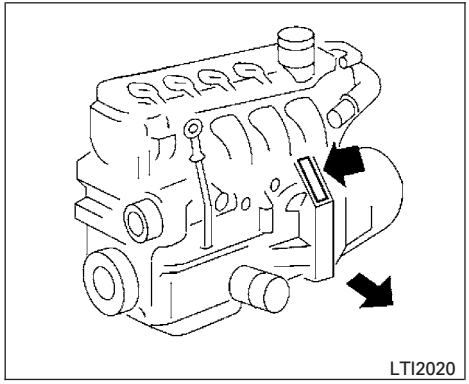
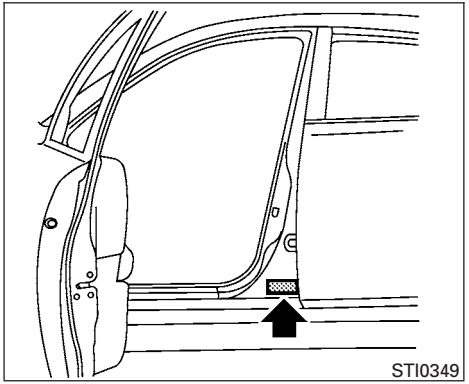


HR16DE engine

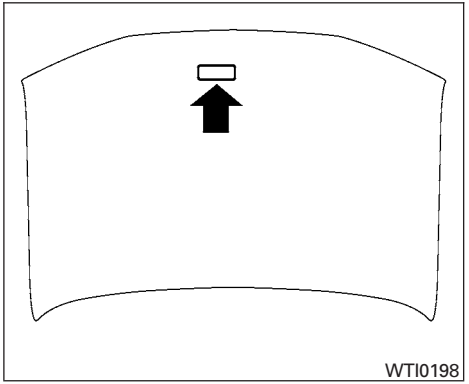
ENGINE SERIAL NUMBER

The number is stamped on the engine as shown.



F.M.V.S.S./C.M.V.S.S. CERTIFICATION LABEL

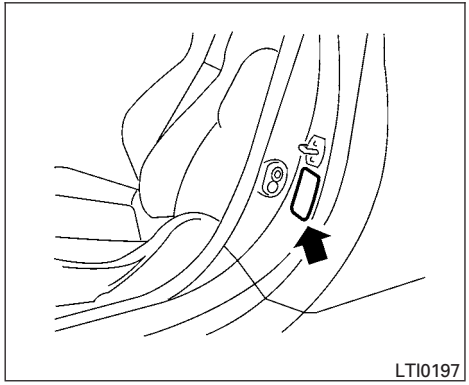
The Federal/Canadian Motor Vehicle Safety Standard (F.M.V.S.S./C.M.V.S.S.) certification label is affixed as shown. This label contains valuable vehicle information, such as: Gross Vehicle Weight Ratings (GVWR), Gross Axle Weight Rating (GAWR), month and year of manufacture, Vehicle Identification Number (VIN), etc. Review it carefully.



EMISSION CONTROL INFORMATION LABEL

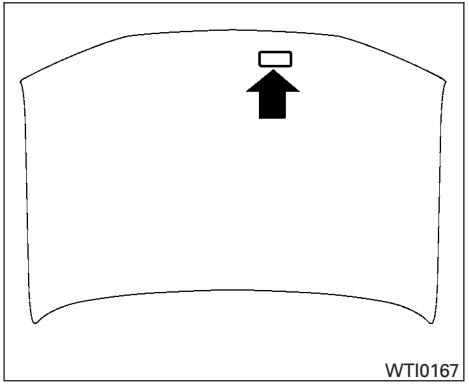
The emission control information label is attached to the underside of the hood as shown.

Information Provided by:
DEALER E-PROCESS



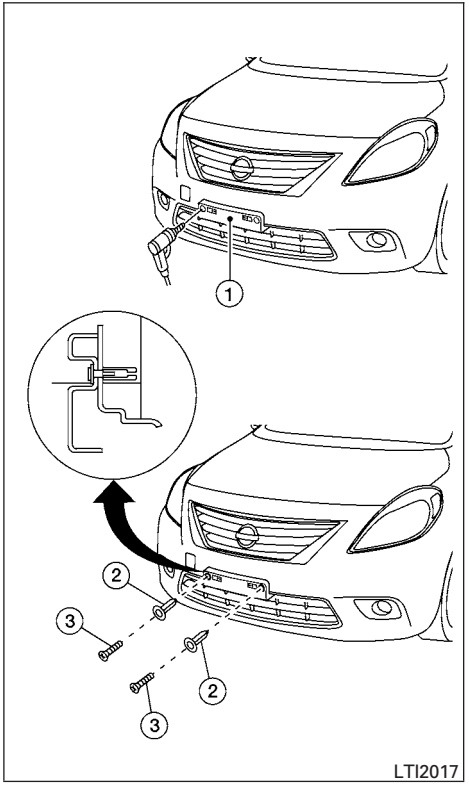
TIRE AND LOADING INFORMATION LABEL

The cold tire pressure is shown on the Tire and Loading Information label. The label is located as shown.



AIR CONDITIONER SPECIFICATION LABEL (if so equipped)

The air conditioner specification label is affixed as shown.



Information Provided by:
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Use the following steps to mount the front license plate:

Before mounting the license plate, confirm that the following parts are enclosed in the plastic bag:

- License plate bracket
- License plate bracket screws x 2
- Screw grommets x 2

1. Hold the license plate bracket ① and make a shallow hole in the bumper fascia using a 5 mm (0.20 in) drill. To avoid damaging the area behind the fascia, apply only light pressure to the drill.
2. Insert the grommets ② into the holes in the bumper fascia.
3. Insert a small flat-bladed screwdriver into the grommet hole to turn the threaded part of the grommet 90°.
4. Mount the license plate bracket using the two longer screws ③.

⚠WARNING

- **It is extremely dangerous to ride in a cargo area inside a vehicle. In a collision, people riding in these areas are more likely to be seriously injured or killed.**
- **Do not allow people to ride in any area of your vehicle that is not equipped with seats and seat belts.**
- **Be sure everyone in your vehicle is in a seat and using a seat belt properly.**

TERMS

It is important to familiarize yourself with the following terms before loading your vehicle:

- Curb Weight (actual weight of your vehicle) - vehicle weight including: standard and optional equipment, fluids, emergency tools, and spare tire assembly. This weight **does not** include passengers and cargo.
- GVW (Gross Vehicle Weight) - curb weight plus the combined weight of passengers and cargo.
- GVWR (Gross Vehicle Weight Rating) - maximum total combined weight of the unloaded vehicle, passengers, luggage, hitch, trailer tongue load and any other optional equipment. This information is located on the F.M.V.S.S./C.M.V.S.S. certification label.
- GAWR (Gross Axle Weight Rating) - maximum weight (load) limit specified for the front or rear axle. This information is located on the F.M.V.S.S./C.M.V.S.S. certification label.
- GCWR (Gross Combined Weight rating) - The maximum total weight rating of the vehicle, passengers, cargo, and trailer.

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- Vehicle Capacity Weight, Load limit, Total load capacity - maximum total weight limit specified of the load (passengers and cargo) for the vehicle. This is the maximum combined weight of occupants and cargo that can be loaded into the vehicle. If the vehicle is used to tow a trailer, the trailer tongue weight must be included as part of the cargo load. This information is located on the Tire and Loading Information label.
- Cargo capacity - permissible weight of cargo, the subtracted weight of occupants from the load limit.

DETERMINING VEHICLE LOAD CAPACITY

The load capacity of this vehicle is determined by weight, not by available cargo space. For example, a luggage rack, bike carrier, cartop carrier or similar equipment does not increase load carrying capacity of your vehicle.

To determine vehicle load capacity:

Vehicle weight can be determined by using a commercial-grade scale, found at places such as a truck stop, gravel quarry, grain elevator, or a scrap metal recycling facility.

1. Determine the curb weight of your vehicle.
2. Compare the curb weight amount to the GVWR specified for your vehicle to determine how much more weight your vehicle can carry.
3. After loading (cargo and passengers), re-weigh your vehicle to determine if either GVWR or GAWR for your vehicle is exceeded. If GVWR is exceeded, remove cargo as necessary. If either the front or rear GAWR is exceeded, shift the load or remove cargo as necessary.

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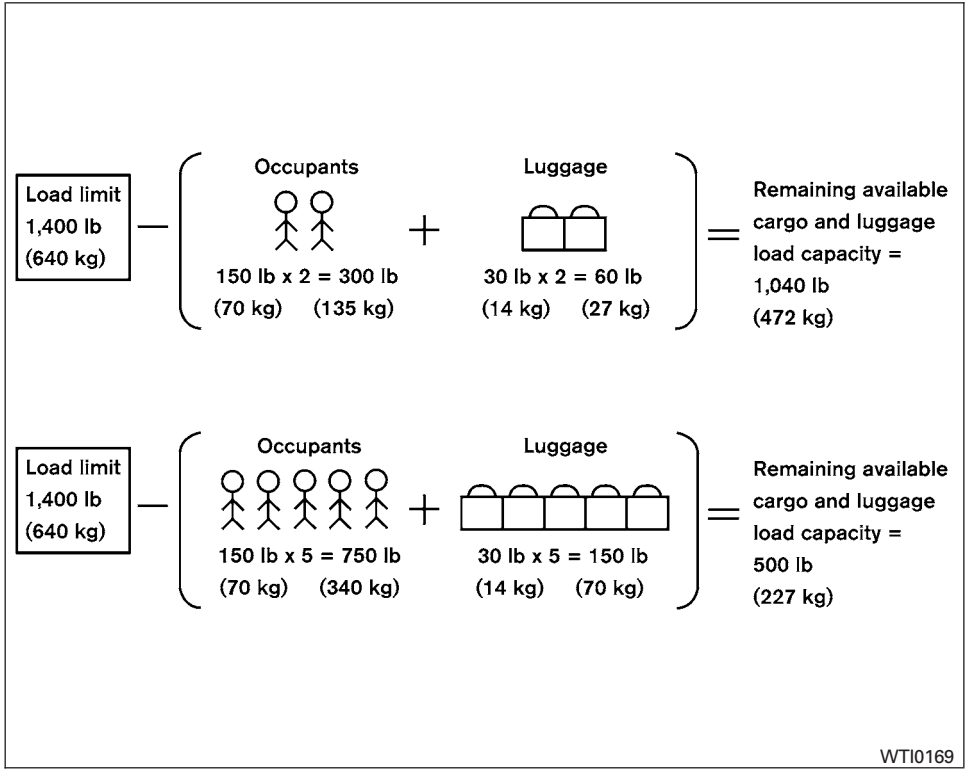

Example

Steps for determining correct load limit

1. Locate the statement “The combined weight of occupants and cargo should never exceed XXX kg or XXX lbs” on your vehicle’s placard.
2. Determine the combined weight of the driver and passengers that will be riding in your vehicle.
3. Subtract the combined weight of the driver and passengers from XXX kg or XXX lbs.
4. The resulting figure equals the available amount of cargo and luggage load capacity. For example, if the XXX amount equals 1,400 lbs. and there will be five 150 lb. passengers in your vehicle, the amount of available cargo and luggage load capacity is 650 lbs. (1,400-750 (5 X 150) = 650 lbs) or (640-340 (5 X 70) = 300 kg.)

Information Provided by:
DEALER E-PROCESS

5. Determine the combined weight of luggage and cargo being loaded on the vehicle. That weight may not safely exceed the available cargo and luggage load capacity calculated in Step 4.

Before driving a loaded vehicle, confirm that you do not exceed the Gross Vehicle Weight Rating (GVWR) or the Gross Axle Weight Rating (GAWR) for your vehicle. See “Measurement of weights” later in this section.

Also check tires for proper inflation pressures. See the Tire and Loading Information label.

LOADING TIPS

- The GVW must not exceed GVWR or GAWR as specified on the F.M.V.S.S./C.M.V.S.S. certification label.
- Do not load the front and rear axle to the GAWR. Doing so will exceed the GVWR.

⚠WARNING

- **Properly secure all cargo with ropes or straps to help prevent it from sliding or shifting. Do not place cargo higher than the seatbacks. In a sudden stop or collision, unsecured cargo could cause personal injury.**
- **Do not load your vehicle any heavier than the GVWR or the maximum front and rear GAWRs. If you do, parts of your vehicle can break, tire damage could occur, or it can change the way your vehicle handles. This could result in loss of control and cause personal injury.**
- **Overloading not only can shorten the life of your vehicle and the tire, but can also cause unsafe vehicle handling and longer braking distances. This may cause a premature tire failure which could result in a serious accident and personal injury. Failures caused by overloading are not covered by the vehicle’s warranty.**

MEASUREMENT OF WEIGHTS

Secure loose items to prevent weight shifts that could affect the balance of your vehicle. When the vehicle is loaded, drive to a scale and weigh the front and the rear wheels separately to determine axle loads. Individual axle loads should not exceed either of the gross axle weight ratings (GAWR). The total of the axle loads should not exceed the gross vehicle weight rating (GVWR). These ratings are given on the vehicle certification label. If weight ratings are exceeded, move or remove items to bring all weights below the ratings.

Information Provided by:
DEALER E-PROCESS

Do not tow a trailer with your vehicle.

FLAT TOWING

Towing your vehicle with all four wheels on the ground is sometimes called flat towing. This method is sometimes used when towing a vehicle behind a recreational vehicle, such as a motor home.

⚠ CAUTION

- **Failure to follow these guidelines can result in severe transmission damage.**
- **Whenever flat towing your vehicle, always tow forward, never backward.**
- **DO NOT tow any continuously variable transmission vehicle with all four wheels on the ground (flat towing). Doing so WILL DAMAGE internal transmission parts due to lack of transmission lubrication.**
- **For emergency towing procedures refer to "Towing recommended by NISSAN" in the "In case of emergency" section of this manual.**

Manual Transmission (if so equipped)

- Always tow with the manual transmission in Neutral.
- After towing 500 miles (805 km), start and idle the engine with the transmission in Neutral for two minutes. Failure to idle the engine after every 500 miles (805 km) of towing may cause damage to internal transmission parts.

Automatic Transmission (if so equipped)

To tow a vehicle equipped with an automatic transmission, an appropriate vehicle dolly **MUST** be placed under the towed vehicle's drive wheels. **Always** follow the dolly manufacturer's recommendations when using their product.

Continuously Variable Transmission (if so equipped)

To tow a vehicle equipped with a continuously variable transmission, an appropriate vehicle dolly **MUST** be placed under the towed vehicle's drive wheels. **Always** follow the dolly manufacturer's recommendations when using their product.

DOT (Department of Transportation) Quality Grades: All passenger car tires must conform to federal safety requirements in addition to these grades.

Quality grades can be found where applicable on the tire sidewall between tread shoulder and maximum section width. For example:

Treadwear 200 Traction AA Temperature A

Treadwear

The treadwear grade is a comparative rating based on the wear rate of the tire when tested under controlled conditions on a specified government test course. For example, a tire graded 150 would wear one and one-half (1 1/2) times as well on the government course as a tire graded 100. The relative performance of tires depends upon the actual conditions of their use, however, and may depart significantly from the norm due to variations in driving habits, service practices and differences in road characteristics and climate.

Traction AA, A, B and C

The traction grades, from highest to lowest, are AA, A, B, and C. Those grades represent the tire's ability to stop on wet pavement as measured under controlled conditions on specified government test surfaces of asphalt and concrete. A tire marked C may have poor traction performance.

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⚠ WARNING

The traction grade assigned to this tire is based on straight-ahead braking traction tests, and does not include acceleration, cornering, hydroplaning, or peak traction characteristics.

Temperature A, B and C

The temperature grades are A (the highest), B, and C, representing the tire's resistance to the generation of heat, and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel. Sustained high temperature can cause the material of the tire to degenerate and reduce tire life, and excessive temperature can lead to sudden tire failure. The grade C corresponds to a level of performance which all passenger car tires must meet under the Federal Motor Safety Standard No. 109. Grades B and A represent higher levels of performance on the laboratory test wheel than the minimum required by law.

⚠ WARNING

The temperature grade for this tire is established for a tire that is properly inflated and not overloaded. Excessive speed, under-inflation, or excessive loading, either separately or in combination, can cause heat build-up and possible tire failure.

EMISSION CONTROL SYSTEM WARRANTY

Your NISSAN vehicle is covered by the following emission warranties:

For USA

1. Emission Defects Warranty
2. Emissions Performance Warranty

Details of this warranty may be found with other vehicle warranties in your Warranty Information Booklet which comes with your NISSAN vehicle. If you did not receive a Warranty Information Booklet, or it is lost, you may obtain a replacement by writing to:

- Nissan North America, Inc.
  Consumer Affairs Department
  P.O. Box 685003
  Franklin, TN 37068-5003

For Canada

Emission Control System Warranty

Details of this warranty may be found with other vehicle warranties in your Warranty Information Booklet which comes with your NISSAN vehicle. If you did not receive a Warranty Information Booklet, or it is lost, you may obtain a replacement by writing to:

- Nissan Canada Inc.
  5290 Orbitor Drive
  Mississauga, Ontario, L4W 4Z5

Information Provided by:
DEALER E-PROCESS

For USA

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying NISSAN.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or NISSAN.

To contact NHTSA, you may call the Vehicle Safety Hotline toll-free at 1-888-327-4236 (TTY: 1-800-424-9153); go to http://www.safercar.gov; or write to: Administrator, NHTSA, 400 Seventh Street, SW., Washington, D.C. 20590. You can also obtain other information about motor vehicle safety from http://www.safercar.gov.

You may notify NISSAN by contacting our Consumer Affairs Department, toll-free, at 1-800-NISSAN-1.

For Canada

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform Transport Canada in addition to notifying NISSAN.

If Transport Canada receives complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may request that NISSAN conduct a recall campaign. However, Transport Canada cannot become involved in individual problems between you, your dealer, or NISSAN.

You may contact Transport Canada's Defect Investigations and Recalls Division toll free at 1-800-333-0510. You may also report safety defects online at: https://wwwapps.tc.gc.ca/Saf-Sec-Sur/7/PCDB-BDPP/Index.aspx.

Additional information concerning motor vehicle safety may be obtained from Transport Canada's Road Safety Information Centre at 1-800-333-0371 or online at www.tc.gc.ca/roadsafety (English speakers) or www.tc.gc.ca/securiteroutiere (French speakers).

To notify NISSAN of any safety concerns please contact our Consumer Information Centre toll free at 1-800-387-0122.

Information Provided by:
DEALER E-PROCESS

READINESS FOR INSPECTION/ MAINTENANCE (I/M) TEST

Due to legal requirements in some states and Canadian Provinces, your vehicle may be required to be in what is called the “ready condition” for an Inspection/Maintenance (I/M) test of the emission control system.

The vehicle is set to the “ready condition” when it is driven through certain driving patterns. Usually, the ready condition can be obtained by ordinary usage of the vehicle.

If a powertrain system component is repaired or the battery is disconnected, the vehicle may be reset to a “not ready” condition. Before taking the I/M test, check the vehicle’s inspection/maintenance test readiness condition. Place the ignition switch in the ON position without starting the engine. If the Malfunction Indicator Light (MIL) comes on steady for 20 seconds and then blinks for 10 seconds , the I/M test condition is “not ready”. If the MIL does not blink after 20 seconds, the I/M test condition is “ready”. Contact a NISSAN dealer to set the “ready condition” or to prepare the vehicle for testing.

EVENT DATA RECORDERS (EDR)

This vehicle is equipped with an Event Data Recorder (EDR). The main purpose of an EDR is to record, in certain crash or near crash-like situations, such as an air bag deployment or hitting a road obstacle, data that will assist in understanding how a vehicle’s systems performed. The EDR is designed to record data related to vehicle dynamics and safety systems for a short period of time, typically 30 seconds or less. The EDR in this vehicle is designed to record such data as:

- How various systems in your vehicle were operating;
- Whether or not the driver and passenger safety belts were buckled/fastened;
- How far (if at all) the driver was depressing the accelerator and/or brake pedal; and,
- How fast the vehicle was traveling.
- Sounds are not recorded.

These data can help provide a better understanding of the circumstances in which crashes and injuries occur. NOTE: EDR data are recorded by your vehicle only if a nontrivial crash situation occurs; no data are recorded by the EDR under normal driving conditions and no personal data (e.g. name, gender, age and crash location) are recorded. However, other parties, such as law enforcement, could combine the EDR data with the type of personally identifying data routinely acquired during a crash investigation.

To read data recorded by an EDR, special equipment is required and access to the vehicle or the EDR is needed. In addition to the vehicle manufacturer and NISSAN dealer, other parties, such as law enforcement, that have the special equipment, can read the information if they have access to the vehicle or the EDR. EDR data will only be accessed with the consent of the vehicle owner or lessee or as otherwise required or permitted by law.

Information Provided by:
DEALER E-PROCESS

OWNER'S MANUAL/SERVICE MANUAL ORDER INFORMATION

Genuine NISSAN Service Manuals for this model year and prior can be purchased. A genuine NISSAN Service Manual is the best source of service and repair information for your vehicle. This manual is the same one used by the factory-trained technicians working at NISSAN dealerships. Genuine NISSAN Owner's Manuals can also be purchased.

For USA

For current pricing and availability of genuine **NISSAN Service Manuals**, contact:

1-800-450-9491
www.nissan-techinfo.com

For current pricing and availability of genuine **NISSAN Owner's Manuals**, contact:

1-800-247-5321

For Canada

To purchase a copy of a genuine NISSAN Service Manual or Owner's Manual, for this model year and prior, please contact your nearest NISSAN dealer. For the phone number and location of a NISSAN dealer in your area, call the NISSAN Information Center at 1-800-387-0122 and a bilingual NISSAN representative will assist you.

Information Provided by:
DEALER E-PROCESS

10 Index

A

ABS (Anti-lock Braking System). 5-27
Air bag (See supplemental restraint system) 1-36
Air bag system
  Front (See supplemental front impact air bag system) 1-43
  Side and curtain (See supplemental side air bag and curtain side-impact air bag system) 1-48
Air bag warning labels 1-50
Air bag warning light. 1-51, 2-16
Air cleaner housing filter 8-17
Air conditioner
  Air conditioner operation 4-16
  Air conditioner service 4-21
  Air conditioner specification label 9-11
  Air conditioner system refrigerant and oil recommendations 9-6
  Heater and air conditioner controls 4-14
  Servicing air conditioner 4-21
Air flow charts. 4-17
Anchor point locations 1-22
Antenna 4-52
Anti-lock brake warning light. 2-12
Anti-lock Braking System (ABS). 5-27
Armrests 1-5
Audible reminders 2-19
Audio system 4-21
  Compact disc (CD) player . .4-33, 4-36, 4-41
  FM/AM radio with compact disc (CD) player. 4-31, 4-34
  FM/AM/SAT radio with compact disc (CD) player 4-38
Audio System
  iPod® Player. 4-46, 4-49
Audio system
  Radio 4-21
  Steering wheel audio control switch . . .4-52
  USB interface. 4-44
Automatic
  Automatic power window switch 2-30
  Automatic transmission fluid (ATF) 8-11
Automatic door locks 3-7
AUX jack. 4-33, 4-37, 4-43

B

Battery. 8-13
  Charge warning light 2-13
Before starting the engine 5-12
Belt (See drive belt) 8-16
Block heater
  Engine. 5-31
Bluetooth® hands-free phone system 4-54
Booster seats 1-32
Brake
  Anti-lock Braking System (ABS). 5-27
  Brake fluid. 8-12
  Brake light (See stop light). 8-28
  Brake system 5-26
  Brake warning light 2-12
  Brake wear indicators 2-19, 8-20
  Parking brake operation 5-19
  Self-adjusting brakes. 8-20
Brakes. 8-20
Break-in schedule 5-22
Brightness/contrast button 4-8
Brightness control
  Instrument panel 2-24
Bulb check/instrument panel. 2-12
Bulb replacement. 8-28

C

Capacities and recommended fuel/lubricants. 9-2
Cargo (See vehicle loading information) . . .9-12
Car phone or CB radio. 4-53
CD care and cleaning 4-51
CD player (See audio system). .4-33, 4-36, 4-41
Child restraints. 1-17, 1-18, 1-19, 1-21
  Precautions on child restraints 1-19, 1-24, 1-29, 1-32
  Top tether strap anchor point locations . .1-22
Child safety rear door lock. 3-7
Chimes, audible reminders. 2-19
Cleaning exterior and interior 7-2
Clock 4-32, 4-35
C.M.V.S.S. certification label. 9-10
Cold weather driving 5-30
Compact disc (CD) player 4-33, 4-36, 4-41
Continuously Variable Transmission (CVT) . .5-15

Information Provided by: DEALER E-PROCESS

Continuously Variable Transmission (CVT) fluid 8-12
Driving with Continuously Variable Transmission (CVT) 5-15
Control panel buttons 4-2
Brightness/contrast button 4-8
Enter button 4-2
Setting button 4-5
Controls
Audio controls (steering wheel). 4-52
Heater and air conditioner controls. 4-14
Coolant
Capacities and recommended fuel/lubricants 9-2
Changing engine coolant 8-8
Checking engine coolant level 8-8
Corrosion protection 7-6
Cruise control 5-20
Cup holders 2-28
Curtain side-impact air bag system (See supplemental side air bag and curtain side-impact air bag system). 1-48

D

Daytime running light system (Canada only) . .2-23
Defroster switch
Rear window defroster switch 2-22
Dimensions and weights 9-8
Dimmer switch for instrument panel 2-24
Display controls (see control panel buttons) . .4-2
Door locks 3-5
Door open warning light. 2-13
Drive belt 8-16
Driving
Cold weather driving 5-30
Driving with Continuously Variable Transmission (CVT) 5-15
Driving with manual transmission 5-18
Precautions when starting and driving 5-2

E

Economy - fuel 5-24
Emission control information label 9-10
Emission control system warranty 9-17
Engine
Before starting the engine. 5-12
Block heater 5-31
Capacities and recommended fuel/lubricants 9-2
Changing engine coolant 8-8
Changing engine oil 8-10
Changing engine oil filter 8-11
Checking engine coolant level 8-8
Checking engine oil level 8-9
Engine compartment check locations 8-6
Engine cooling system 8-7
Engine oil 8-9
Engine oil and oil filter recommendation . . .9-5
Engine oil pressure warning light 2-13
Engine oil viscosity 9-5
Engine serial number 9-10
Engine specifications 9-7
Starting the engine 5-13, 5-14
Enter button 4-2
Event data recorders 9-19
Exhaust gas (Carbon monoxide) 5-2
Extended storage switch 8-23

F

Flashers (See hazard warning flasher switch). .6-2
Flat tire 6-3
Floor mat positioning aid 7-5
Fluid
Automatic transmission fluid (ATF) 8-11
Brake fluid 8-12
Capacities and recommended fuel/lubricants 9-2
Continuously Variable Transmission (CVT) fluid 8-12
Engine coolant. 8-7
Engine oil 8-9
F.M.V.S.S. certification label. 9-10
Fog light switch 2-25
Front air bag system (See supplemental restraint system) 1-43
Front seats 1-2
Fuel
Capacities and recommended fuel/lubricants 9-2
Fuel economy 5-24
Fuel-filler door and cap 3-27
Fuel-filler door lock opener lever 3-27
Fuel gauge 2-8
Fuel octane rating 9-4
Fuel recommendation 9-3
Loose fuel cap warning 2-6, 3-27
Fuses 8-20
Fusible links 8-21

Information Provided by: DEALER E-PROCESS

G

Gas cap 3-27
Gauge
Fuel gauge 2-8
Odometer 2-5
Speedometer 2-5
Tachometer 2-7
Trip computer 2-9
Trip odometer 2-5
General maintenance 8-2
Glove box. 2-29

H

Hands-free phone system, Bluetooth® 4-54
Hazard warning flasher switch 6-2
Headlight and turn signal switch 2-22
Headlight control switch 2-22
Headlights 8-26
Heater
Heater and air conditioner controls. 4-14
Heater operation. 4-15
Hood release. 3-24
Horn 2-25

I

Ignition switch 5-7
Ignition Switch
Push-Button Ignition Switch 5-9
Immobilizer system. 2-20, 3-4, 5-9, 5-12
Important vehicle information label 9-10
Increasing fuel economy. 5-24
Indicator lights and audible reminders
(See warning/indicator lights and audible reminders) 2-11
Inside mirror 3-31
Instrument brightness control. 2-24
Instrument panel 0-6, 2-2
Instrument panel dimmer switch 2-24
Intelligent Key system
Key operating range 3-13
Key operation 3-14
Mechanical key 3-4
Remote keyless entry operation. 3-17
Troubleshooting guide. 3-22
Warning signals 3-22
Interior light 2-31, 2-32
Interior trunk lid release 3-26
iPod® Player 4-46, 4-49
ISOFIX child restraints 1-21

J

Jump starting 6-8

K

Key 3-2
Keyfob battery replacement. 8-23
Keyless entry
With Intelligent Key system
(See Intelligent Key system). 3-17

L

Labels
Air conditioner specification label 9-11
C.M.V.S.S. certification label 9-10
Emission control information label 9-10
Engine serial number 9-10
F.M.V.S.S. certification label. 9-10
Tire and Loading Information label 9-11
Vehicle identification number (VIN) plate . .9-9
Warning labels (for SRS) 1-50
LATCH (Lower Anchors and Tethers for CHildren) System 1-21
License plate
Installing the license plate. 9-11
Light
Air bag warning light 1-51, 2-16
Brake light (See stop light) 8-28
Bulb check/instrument panel 2-12
Bulb replacement 8-28
Charge warning light 2-13
Fog light switch 2-25
Headlight and turn signal switch 2-22
Headlight control switch 2-22
Headlights 8-26
Interior light 2-31, 2-32
Light bulbs 8-26
Low tire pressure warning light 2-14
Passenger air bag and status light 1-45
Security indicator light. 2-18
Trunk light 2-33
Warning/indicator lights and audible reminders. 2-11
Lock
Child safety rear door lock 3-7

Information Provided by:
DEALER E-PROCESS

Door locks 3-5
Fuel-filler door lock opener lever 3-27
Power door locks 3-6
Trunk lid lock opener lever. 3-26
Loose fuel cap warning 2-6, 3-27
Low fuel warning light 2-14
Low tire pressure warning light 2-14
Luggage (See vehicle loading information) . .9-12

M

Maintenance
General maintenance 8-2
Inside the vehicle 8-3
Maintenance precautions 8-5
Outside the vehicle 8-2
Seat belt maintenance. 1-16
Under the hood and vehicle 8-4
Malfunction indicator light 2-17
Manual front seat adjustment. 1-2
Manual windows 2-31
Map pocket. 2-27
Meters and gauges 2-3
Instrument brightness control. 2-24
Mirror
Inside mirror 3-31
Outside mirrors 3-32
Vanity mirror 3-31

N

NISSAN Intelligent Key® 3-3, 3-11
NISSAN vehicle immobilizer
system 2-20, 3-4, 5-9, 5-12

O

Octane rating (See fuel octane rating). 9-4
Odometer 2-5
Oil
Capacities and recommended
fuel/lubricants 9-2
Changing engine oil 8-10
Changing engine oil filter 8-11
Checking engine oil level 8-9
Engine oil 8-9
Engine oil and oil filter recommendation . . .9-5
Engine oil viscosity 9-5
Outside mirrors 3-32
Overheat
If your vehicle overheats. 6-10
Owner's manual order form 9-20
Owner's manual/service manual order
information 9-20

P

Parking
Parking brake operation 5-19
Parking/parking on hills 5-24
Phone, Bluetooth® hands-free system. 4-54
Power
Power door locks 3-6
Power outlet 2-26
Power rear windows. 2-30
Power steering system 5-25
Power windows 2-29
Rear power windows 2-30
Precautions
Maintenance precautions 8-5
Precautions on child
restraints. 1-19, 1-24, 1-29, 1-32
Precautions on seat belt usage 1-10
Precautions on supplemental restraint
system 1-36
Precautions when starting and driving 5-2
Programmable features 4-5
Push starting 6-10

R

Radio
Car phone or CB radio 4-53
FM/AM radio with compact disc
(CD) player 4-31, 4-34
FM/AM/SAT radio with compact disc (CD)
player 4-38
Steering wheel audio control switch 4-52
Readiness for inspection maintenance
(I/M) test 9-19
Rear power windows 2-30
Rear seat. 1-4
RearView Monitor 4-8
Rear window defroster switch 2-22
Recorders
Event data 9-19
Refrigerant recommendation 9-6
Registering your vehicle in another country . . .9-9
Reporting safety defects (US only). 9-18

Information Provided by:
DEALER E-PROCESS

S

Safety
- Child safety rear door lock 3-7
- Child seat belts 1-19, 1-24, 1-29, 1-32
- Reporting safety defects (US only) 9-18

Seat adjustment
- Front manual seat adjustment 1-2
- Rear seat adjustment 1-4

Seatback pockets 2-27

Seat belt
- Child safety 1-17
- Infants and small children 1-18
- Injured Person 1-13
- Larger children 1-18
- Precautions on seat belt usage 1-10
- Pregnant women 1-13
- Seat belt extenders 1-16
- Seat belt maintenance 1-16
- Seat belts 1-10
- Shoulder belt height adjustment 1-16
- Three-point type with retractor 1-13

Seat belt warning light 2-16

Seats
- Adjustment 1-2
- Front seats 1-2
- Manual front seat adjustment 1-2
- Rear seat 1-4

Security indicator light 2-18

Security system (NISSAN vehicle immobilizer system), engine start 2-20, 3-4, 5-9, 5-12

Self-adjusting brakes 8-20

Service manual order form 9-20

Servicing air conditioner 4-21

Setting button 4-5

Shifting
- Continuously Variable Transmission (CVT) 5-16
- Manual transmission 5-18

Shift lock release 5-17

Shoulder belt height adjustment 1-16

Side air bag system (See supplemental side air bag and curtain side-impact air bag system) .1-48

Spark plug replacement 8-17

Speedometer 2-5

SRS warning label 1-50

Starting
- Before starting the engine 5-12
- Jump starting 6-8
- Precautions when starting and driving 5-2
- Push starting 6-10
- Starting the engine 5-13, 5-14

Steering
- Power steering system 5-25
- Tilting steering wheel 3-30

Steering wheel audio control switch 4-52

Stop light 8-28

Storage 2-27

Storage tray 2-27

Sun visors 3-30

Supplemental air bag warning labels 1-50

Supplemental air bag warning light . . .1-51, 2-16

Supplemental front impact air bag system . . .1-43

Supplemental restraint system
- Information and warning labels 1-50
- Precautions on supplemental restraint system 1-36

Supplemental restraint system (Supplemental air bag system) 1-36

Supplemental side and curtain side-impact air bag system 1-48

Switch
- Automatic power window switch 2-30
- Fog light switch 2-25
- Hazard warning flasher switch 6-2
- Headlight and turn signal switch 2-22
- Headlight control switch 2-22
- Ignition switch 5-7
- Power door lock switch 3-6
- Rear window defroster switch 2-22
- Turn signal switch 2-24
- Vehicle dynamic control (VDC) off switch 2-25
- Windshield wiper and washer switch . . .2-21

T

Tachometer 2-7

Theft (NISSAN vehicle immobilizer system), engine start 2-20, 3-4, 5-9, 5-12

Three-way catalyst 5-2

Tilting steering wheel 3-30

Tire
- Flat tire 6-3
- Spare tire 6-4, 8-42
- Tire and Loading Information label 9-11
- Tire chains 8-39
- Tire placard 9-11
- Tire pressure 8-32
- Tire rotation 8-39
- Types of tires 8-38
- Uniform tire quality grading 9-16
- Wheels and tires 8-32
- Wheel/tire size 9-8

Tire pressure
- Low tire pressure warning light 2-14

Information Provided by:
DEALER E-PROCESS

Tire Pressure Monitoring System (TPMS) 5-3
Towing
Flat towing 9-16
Tow truck towing. 6-11
Trailer towing 9-16
Transmission
Automatic transmission fluid (ATF) 8-11
Continuously Variable Transmission (CVT) fluid 8-12
Driving with Continuously Variable Transmission (CVT) 5-15
Driving with manual transmission 5-18
Transmission shift selector lock release 5-17
Travel (See registering your vehicle in another country) 9-9
Trip computer 2-9
Trip odometer 2-5
Trunk access through the rear seat 1-4
Trunk lid lock opener lever. 3-26
Trunk light 2-33
Turn signal switch 2-24

U

Uniform tire quality grading 9-16
USB interface
Audio file operation 4-45

V

Vanity mirror 3-31
Variable voltage control system. 8-16
Vehicle dimensions and weights 9-8
Vehicle dynamic control (VDC) off switch . . .2-25
Vehicle dynamic control (VDC) system. 5-28
Vehicle identification 9-9
Vehicle identification number (VIN) (Chassis number) 9-9
Vehicle identification number (VIN) plate 9-9
Vehicle loading information 9-12
Vehicle recovery 6-13
Vehicle security system (NISSAN vehicle immobilizer system), engine start . . .2-20, 3-4, 5-9, 5-12
Ventilators 4-13
Visors 3-30

W

Warning
Air bag warning light 1-51, 2-16
Anti-lock brake warning light 2-12
Battery charge warning light 2-13
Brake warning light 2-12
Door open warning light. 2-13
Engine oil pressure warning light 2-13
Hazard warning flasher switch 6-2
Low fuel warning light 2-14
Low tire pressure warning light 2-14
Passenger air bag and status light 1-45
Seat belt warning light. 2-16
Warning/indicator lights and audible reminders. 2-11
Warning labels (for SRS) 1-50
Warning lights 2-11
Washer switch
Windshield wiper and washer switch . . .2-21
Weights (See dimensions and weights) 9-8
Wheels and tires. 8-32
Wheel/tire size. 9-8
When traveling or registering your vehicle in another country 9-9
Windows
Locking passengers' windows 2-30
Manual windows 2-31
Power rear windows. 2-30
Power windows 2-29
Rear power windows 2-30
Windshield-washer fluid. 8-13
Windshield wiper and washer switch 2-21
Wiper
Windshield wiper and washer switch . . .2-21
Wiper blades. 8-18

Information Provided by:
DEALER E-PROCESS

RECOMMENDED FUEL:

Use unleaded regular gasoline with an octane rating of at least 87 AKI (Anti-Knock Index) number (Research octane number 91).

⚠ CAUTION

- **Using a fuel other than that specified could adversely affect the emission control system, and may also affect the warranty coverage.**
- **Under no circumstances should a leaded gasoline be used, because this will damage the three-way catalyst.**
- **Do not use E-15 or E-85 fuel in your vehicle. Your vehicle is not designed to run on E-15 or E-85 fuel. Using E-15 or E-85 fuel in a vehicle not specifically designed for E-15 or E-85 fuel can adversely affect the emission control devices and systems of the vehicle. Damage caused by such fuel is not covered by the NISSAN new vehicle limited warranty.**
- **U.S. government regulations require ethanol dispensing pumps to be identified by a small, square, orange and black label with the common abbreviation or the appropriate percentage for that region.**

For additional information, see “Capacities and recommended fuel/lubricants” in the “Technical and consumer information” section.

RECOMMENDED ENGINE OIL:

- Engine oil with API Certification Mark
- Viscosity SAE 5W-30

See “Engine oil and oil filter recommendations” in the “Technical and consumer information” section of this manual.

COLD TIRE PRESSURE:

See Tire and Loading Information label.

The label is typically located on the driver side center pillar or on the driver’s door. For additional information, see “Wheels and tires” in the “Maintenance and do-it-yourself” section of this manual.

RECOMMENDED NEW VEHICLE BREAK-IN PROCEDURE:

During the first 1,200 mi (2,000 km) of vehicle use, follow the recommendations outlined in the “Break-in schedule” information found in the “Starting and driving” section of this manual. Follow these recommendations for the future reliability and economy of your new vehicle. Failure to follow these recommendations may result in vehicle damage or shortened engine life.

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